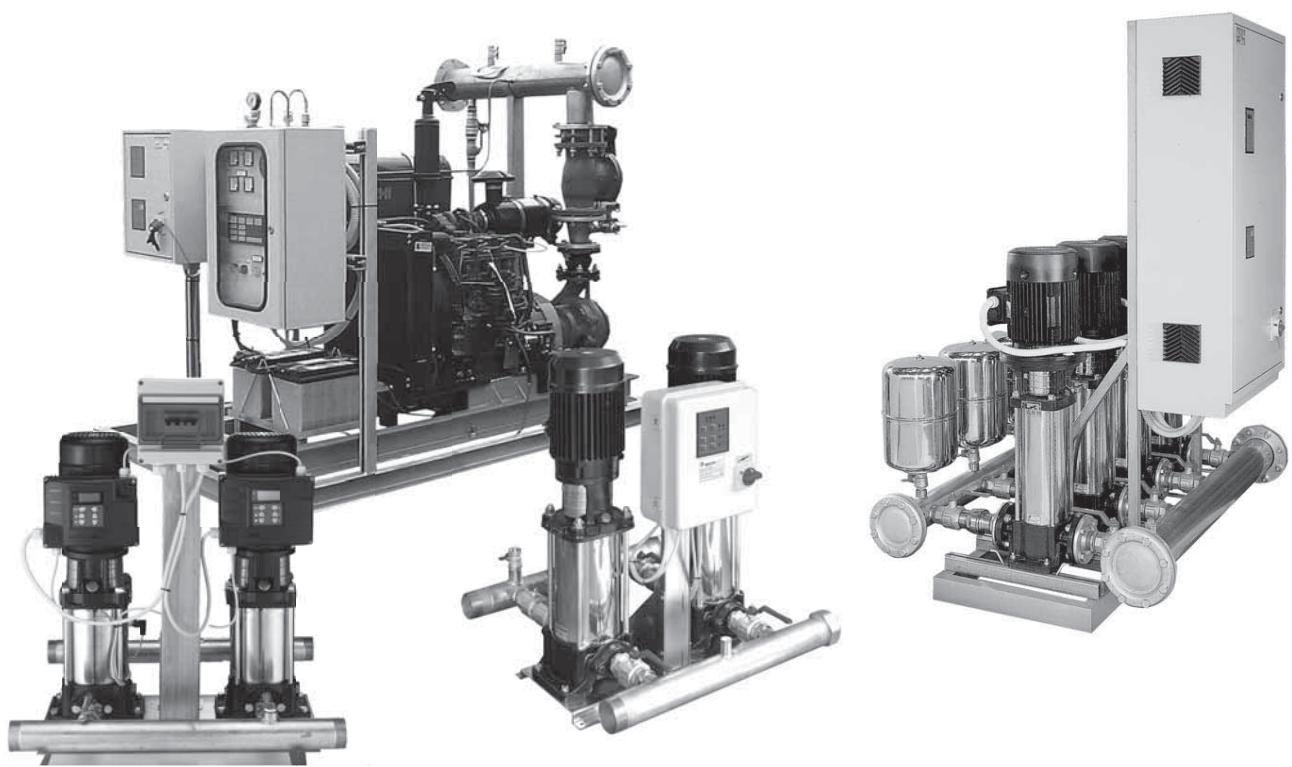
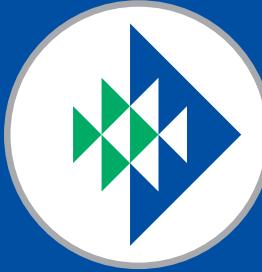




**Gruppi di pressione antincendio
a norma EN12845**
*Fire fighting booster sets
according to EN12845*







Pentair™
Water

► Leader in tecnologia per l'acqua

Il Gruppo Pentair Water si colloca tra i leader a livello mondiale nella progettazione e produzione di prodotti e sistemi innovativi usati ovunque per il trattamento, la movimentazione e l'immagazzinamento dell'acqua.

Il Gruppo basa la sua attività ed il suo successo su valori quali il miglioramento costante, lo sviluppo continuo di nuovi prodotti, le alte prestazioni, la competenza, l'etica aziendale e la leadership di mercato.

Il personale Pentair condivide valori personali come la serietà, il profondo rispetto per le persone e per l'ambiente ed un metodo di lavoro pratico e corretto. Il solido rapporto con i Clienti e gli alti standard qualitativi permettono a Pentair Water di essere tra i principali produttori di tecnologie e strumentazioni per il trattamento dell'acqua.

► Premier supplier of water equipment

Pentair is a diversified operating company headquartered in Minnesota. Its Water Group is a global leader in providing innovative products and systems used worldwide in the movement, treatment, storage and enjoyment of water. Pentair's Enclosure group is leader in the global market of enclosures for sensitive electronics and electrical components.

Pentair is a values-driven company that brings superior products to customers through some of the world's leading brands. Efforts in continuous improvement, strong new product development, high performance, competence, business ethics and market leadership have contributed greatly to our success. Pentair's employees share many personal values such as accountability, deep respect for people and the environment, and a candid and practical work style. Strong customer relationships and quality products allow Pentair Water to attain the vision of being the leading provider of water equipment.

Il Gruppo Pentair Water opera attraverso 4 divisioni di vendita:

Pentair Water operates through an organization that includes 4 Business Units:



► Elettropompe

Pompe centrifughe verticali ed orizzontali; pompe sommerse per uso domestico, commerciale, agricolo ed industriale; pompe per drenaggio acque chiare ed acque cariche; gruppi di pressione e gruppi antincendio; pompe per sistemi di riscaldamento e condizionamento.

► Pump Systems

Products range from single and multistage centrifugals to shallow and deep well submersibles for residential, commercial and agriculture applications; sump, effluent and sewage pumps designed for water and wastewater applications; pressure boosting and fire fighting systems as well as circulating pumps for heating, ventilation and air conditioning.



► Filtrazione

Sistemi di filtrazione per i settori industriali, residenziali e commerciali; cartucce filtranti, componenti per la filtrazione di acqua potabile, pompe per camper e imbarcazioni, pompe e accessori per applicazioni industriali e alimentari.

► Filtration & purification Technologies

Residential, commercial, and industrial filtration housings; replaceable cartridge elements; carbon block filtration; drinking water filtration system components; pumps for recreational vehicles, marine, industrial applications and food service.



► Trattamento dell'acqua

Valvole per il controllo del condizionamento dell'acqua in campo domestico, commerciale ed industriale; serbatoi e vasi di espansione a pressione in fibra di vetro; serbatoi per l'immagazzinamento d'acqua.

► Water Treatment

Residential, commercial, industrial, water conditioning control valves, fiberglass wound pressure tanks and vessels, brine cabinets and storage tanks.



► Piscina e idromassaggio

Gamme complete di attrezzature ed accessori per piscine e idromassaggi residenziali o commerciali: filtri, pompe, sistemi di riscaldamento e di illuminazione, accessori per la pulizia; dosatori e sistemi di controllo, prodotti e accessori per fontane e laghetti.

► Pool and spa

A complete line of commercial and residential pool/spa equipment and accessories including pumps, filters, heaters, lights, automation, automatic pool cleaners, commercial deck equipment, barbecue deck equipment, aquatic pond products and accessories, pool tile and interior finishing surfaces, maintenance equipment, spa/jetted tub hydrotherapy fittings and pool/spa accessories.



Water Energy

Diamo energia alla vostra acqua

Fondata nel 1977, Nocchi fa oggi parte del Gruppo Pentair Water. Da 30 anni siamo impegnati nella progettazione e produzione di elettropompe per la movimentazione dell'acqua, fornendo ai nostri clienti prodotti di qualità e soluzioni funzionali ad ogni tipo di esigenza.

All'interno dell'ampia gamma Nocchi gli studi di progettazione ed i distributori specializzati di idraulica e termo-sanitari possono trovare prodotti e sistemi che rispondono alle necessità di alimentazione idrica e pressurizzazione, nell'ambito dell'edilizia residenziale e collettiva, dell'irrigazione e dell'industria.

Reliable pumps providing water energy.

Established in 1977, Nocchi is today a part of Pentair Water group. For more than 30 years we have been designing and manufacturing water pumps providing our customers quality products and concrete solutions. Nocchi line is dedicated to engineering firms and plumbing and heating/cooling distributing centres. Within the full Nocchi range a professional customer can find products and innovative solutions to suit any need with regards to water supply and pressurization in the realm of residential and commercial building, irrigation and industry applications.

► Sistemi di riscaldamento, ventilazione e condizionamento

Heating, ventilation and air-conditioning



► Sistemi antincendio e di pressurizzazione

Pressure boosting and fire fighting



► Elettropompe per drenaggio

Sewage and wastewater



► Elettropompe per uso residenziale

Domestic water supply



► Elettropompe per pozzi aperti e trivellati

Groundwater supply



FIREMAT

GRUPPI DI PRESSIONE ANTINCENDIO EN12845/UNI10779 FIRE-FIGHTING PRESSURE UNITS EN12845/UNI10779

Sono gruppi per la pressurizzazione automatica di impianti antincendio con sprinkler e/o con idranti, progettati e costruiti in conformità alla normativa EN12845.

These units are used to automatically pressurise fire-fighting systems using sprinklers or hydrants, and have been designed and constructed in accordance with EN12845 standards.



Descrizione funzionamento

I gruppi di pressione antincendio FIREMAT sono costruiti con componenti e materiali adeguati ai criteri delle normative EN12845 e UNI10779 assemblati e collaudati in fabbrica.

Per diminuzione della pressione in rete i pressostati si azionano automaticamente e in cascata azionano la sequenza di partenza delle pompe installate: elettropompa pilota (quando presente), elettropompa/motopompa di servizio. Solo l'elettropompa pilota si arresta automaticamente al raggiungimento della pressione di stop, mentre l'elettropompa/e o la motopompa di servizio possono essere arrestate solo manualmente tramite il pulsante di arresto posto sul quadro di comando. Per impianti a idranti secondo la norma UNI10779 le pompe possono essere fermate automaticamente tramite un temporizzatore.

Description of operations

FIREMAT fire-fighting pressure units are built with materials and components meeting EN12845 and UNI10779 standards, and are assembled and inspected at the plant.

Pressure gauges are either activated automatically or in sequence in order to diminish network pressure, activating the start-up sequence in the pumps installed: pilot electric pump (when present), electric duty pump/motor pump. The pilot electric pump stops automatically once it reaches the stop pressure, while the electric duty pump(s) or motor pump can only be stopped manually using the stop button found on the control panel.

In hydrant systems, pumps can be stopped automatically using a timer in accordance with UNI10779 standards.

| NUMERO POMPE NUMBER OF PUMPS | | | PORTATA MASSIMA MAX CAPACITY | |
|---------------------------------|--------|--------------------------|-----------------------------------------------|---------------------------------------|
| Pompe principali Main pumps | | Pilot Pilot | Tipo di alimentazione Type of water supply | |
| ELETTRICA ELECTRIC | DIESEL | (OPZIONALE- OPTIONAL) | Singola Single | Superiore/Doppia Superior/Double |
| VERTICALI VERTICAL | 1 | | 1 | da from 12 a to 85 m ³ /h |
| | 2 | | | da from 24 a to 170 m ³ /h |
| | 2 | 1 | | da from 12 a to 85 m ³ /h |
| | 3 | | | da from 24 a to 170 m ³ /h |
| | 3 | 1 | | da from 36 a to 285 m ³ /h |
| SOMMERSE SUBMERGED | 1 | | 1 | da from 18 a to 66 m ³ /h |
| | 2 | | 1 | da from 18 a to 66 m ³ /h |
| ORIZZONTALI HORIZONTAL | 1 | | | da from 21 a 330 m ³ /h |
| | 1 | 1 | | da from 21 a 330 m ³ /h |
| | 1 | 1 | 1 | da from 21 a 330 m ³ /h |
| | 1 | 1 | | da from 21 a 330 m ³ /h |
| | 1 | 1 | 1 | da from 21 a 330 m ³ /h |
| | 1 | 2 | | da from 21 a 660 m ³ /h |
| | 1 | 2 | 1 | da from 21 a 660 m ³ /h |
| | 2 | | | da from 21 a 330 m ³ /h |
| | 2 | | 1 | |
| | 3 | | | da from 21 a 660 m ³ /h |
| | 3 | | 1 | |

Dati d'impiego Usage information

| ORIZZONTALI HORIZONTAL | | | | | | |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|----------------|-----------------|
| DATI D'IMPIEGO * USAGE INFORMATION* | NRB2 32 | NRB2 40 | NRB2 50 | NRB2 65 | NRB2 80 | NRB2 100 |
| Portata massima (m ³ /h) <i>Maximum capacity m3/h</i> | 27 | 45 | 78 | 135 | 240 | 330 |
| Prevalenza massima m.c.a. <i>Maximum head in mwc</i> | 62 | 93 | 95 | 93 | 91 | 90 |
| Pressione massima esercizio <i>Maximum working pressure</i> | 16 bar | | | | | |
| Tensione di alimentazione <i>Power voltage</i> | 400 V | | | | | |
| Avviamento <i>Start-up</i> | Diretto fino a 7,5 Kw - Stella/triangolo oltre 7,5 Kw <i>Direct up to 7.5 Kw – Star/delta above 7.5 Kw</i> | | | | | |
| Frequenza <i>Frequency</i> | 50 Hz | | | | | |
| Grado di protezione pompa <i>Level of protection for the pump</i> | IP 55 | | | | | |
| Grado di protezione quadro elettrico <i>Level of protection for the electric panel</i> | IP 54 | | | | | |
| Temperatura ambiente <i>Ambient temperature</i> | Max 40 °C | | | | | |

* prestazioni idrauliche a 50 Hz per singola idraulica

* hydraulic performance at 50 Hz for individual hydraulics

| VERTICALI VERTICAL | | | | |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|
| DATI D'IMPIEGO * USAGE INFORMATION* | VLR8 | VLR16 | VLR32 | VLR66 |
| Portata massima (m ³ /h) <i>Maximum capacity m3/h</i> | 12 | 21 | 42 | 85 |
| Prevalenza massima m.c.a. <i>Maximum head in mwc</i> | 103 | 91 | 89 | 113 |
| Pressione massima esercizio <i>Maximum working pressure</i> | 16 bar | | | |
| Tensione di alimentazione <i>Power voltage</i> | 400V | | | |
| Avviamento <i>Start-up</i> | Diretto fino a 7,5 Kw - Stella/triangolo oltre 7,5 Kw <i>Direct up to 7.5 Kw – Star/delta above 7.5 Kw</i> | | | |
| Frequenza <i>Frequency</i> | 50 Hz | | | |
| Grado di protezione pompa <i>Level of protection for the pump</i> | IP55 | | | |
| Grado di protezione quadro elettrico <i>Level of protection for the electric panel</i> | IP54 | | | |
| Temperatura ambiente <i>Ambient temperature</i> | Max 50 °C | | | |

* prestazioni idrauliche a 50 Hz per singola idraulica

* hydraulic performance at 50 Hz for individual hydraulics

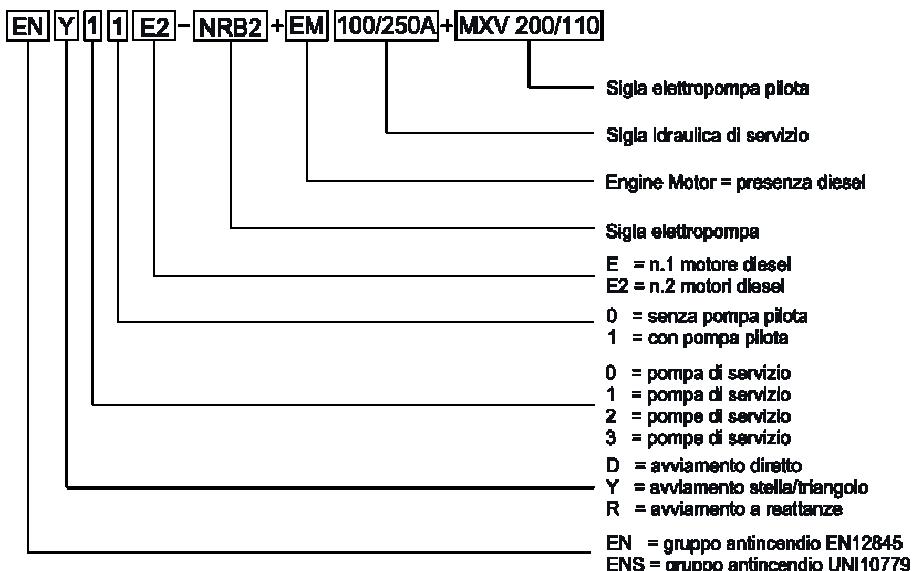
Dati d'impiego Usage information

| SOMMERSE SUBMERGED | | SA615 | SA625 | SA630 | SA650 |
|-------------------------------------------------------------------------------------------|--|--------------|--------------|-------------------------------------------------------------------------------------------------------|--------------|
| DATI D'IMPIEGO * USAGE INFORMATION* | | | | | |
| Portata massima (m ³ /h) <i>Maximum capacity m3/h</i> | | 18 | 34 | 48 | 66 |
| Prevalenza massima m.c.a. <i>Maximum head in mwc</i> | | 94 | 122 | 126 | 122 |
| Pressione massima esercizio <i>Maximum working pressure</i> | | | | 16 bar | |
| Tensione di alimentazione <i>Power voltage</i> | | | | 400 V | |
| Avviamento <i>Start-up</i> | | | | Diretto fino a 7,5 Kw - Reattanze oltre 7,5 Kw <i>Direct up to 7.5 Kw - Reactance above 7,5 Kw</i> | |
| Frequenza <i>Frequency</i> | | | | 50 Hz | |
| Grado di protezione pompa <i>Level of protection for the pump</i> | | | | IP68 | |
| Grado di protezione quadro elettrico <i>Level of protection for the electric panel</i> | | | | IP54 | |
| Temperatura ambiente <i>Ambient temperature</i> | | | | Max 50 °C | |
| Temperatura liquido <i>Liquid temperature</i> | | | | Max 30 °C | |

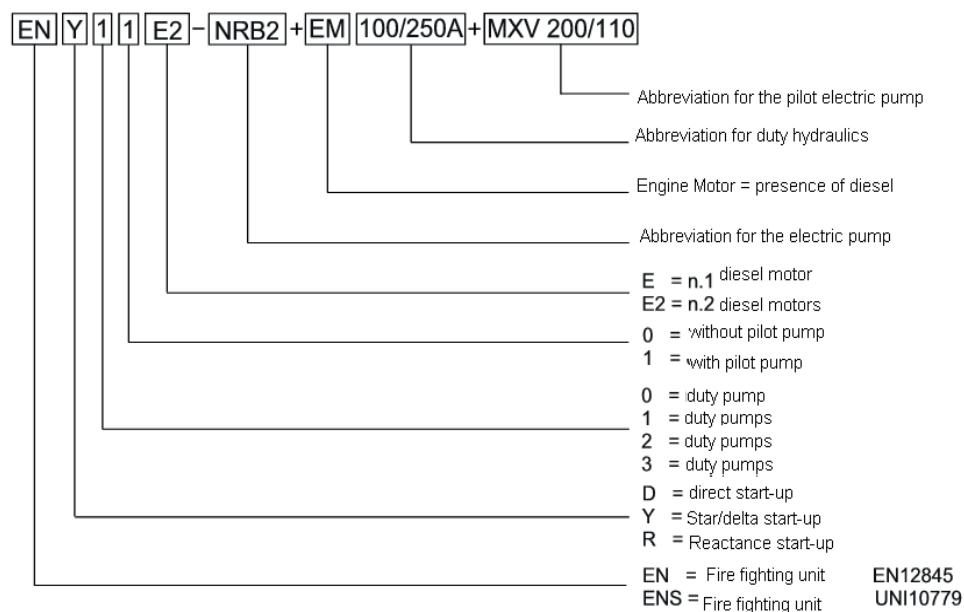
* prestazioni idrauliche a 50 Hz per singola idraulica

* hydraulic performance at 50 Hz for individual hydraulics

CHIAVE DI LETTURA



LEGEND



NORMATIVE DI RIFERIMENTO

I gruppi di pressione della serie FIREMAT sono marcati CE in conformità alle direttive:

- Direttiva Macchine 98/37/CE.
- Direttiva Bassa Tensione 73/23/CEE e successive modifiche.
- Direttiva Compatibilità elettromagnetica 89/336/CEE e successive modifiche.

I gruppi di pressione della serie FIREMAT sono conformi alla normativa antincendio UNI EN 12845.

I gruppi in versione con spegnimento automatico sono conformi anche alla normativa antincendio UNI 10779.

REFERENCE REGULATIONS

FIREMAT pressure units bear the CE mark and are in conformity with the following directives:

- Machine Directive 98/37/EC.
- Low Voltage Directive 73/23/EEC and successive modifications.
- Electromagnetic Compatibility Directive 89/336/EEC and successive modifications.

FIREMAT pressure units are in conformity with UNI EN 12845 fire-fighting standards.

The version of the units that switch off automatically are in conformity with UNI 10779 fire-fighting standards as well.

PRINCIPALI CARATTERISTICHE DELLE ELETTROPOMPE UTILIZZATE

- **MULTINOX-VE 200/...** (elettropompa pilota)

Elettropompe centrifuga multicellulare verticali con flangia di aspirazione e di mandata in ghisa EN GJL 200, albero in acciaio inox Aisi304 e giranti e diffusori in tecnopoliomer.

- **NRI ...** (idraulica di servizio)

Pompa di tipo centrifugo monostadio ad asse orizzontale, progettate in accordo alla norma EN733 con, corpo pompa, girante e supporto in ghisa EN GJL 200, albero in acciaio inox Aisi420 e tenuta meccanica in ceramica e grafite.

- **NRB2 ...** (elettropompa di servizio)

Elettropompa di tipo centrifugo monostadio ad asse orizzontale, progettate in accordo alla norma EN733 con, corpo pompa, girante e supporto in ghisa EN GJL 200, albero in acciaio inox Aisi420 e tenuta meccanica in ceramica e grafite. Motore elettrico normalizzato IP55.

La connessione tra motore e idraulica è tramite giunto spaziatore in modo tale da assicurare che entrambi possano essere rimossi indipendentemente ed in modo tale che le parti interne della pompa possano essere ispezionate o sostituite senza coinvolgere le tubazioni di aspirazione o di mandata

- **VLR ...** (elettropompa di servizio/pilota)

Elettropompa centrifuga multicellulare verticale in line composta da; base pompa e testa in ghisa EN GJL 200, albero, giranti diffusori in AISI304. Tenuta meccanica in carburo di silicio per la faccia rotante e in grafite impregnata resina per la faccia stazionaria, soffietto ed o-ring in EPDM.

- **SA ...** (elettropompa di servizio)

Elettropompa centrifuga multicellulare sommersa com bocca di mandata in ghisa sferoidale EN GJS 400, albero e camicia in acciaio inox, giranti in tecnopoliomer policarbonato e diffusori in Noryl GNF 2V.

- **SCM4PLUS ...** (elettropompa pilota)

Elettropompa centrifuga multicellulare sommersa con bocca di mandata, flangia di aspirazione, corpo pompa e valvola di non ritorno in acciaio AISI304, diffusori in policarbonato con inserto in ceramica e giranti in resina acetalina

MAIN FEATURES OF THE ELECTRIC PUMPS USED

- **MULTINOX-VE 200/...** (pilot electric pump)

Vertical, multi-cellular centrifugal electric pump with EN GJL 200 cast iron suction and delivery flange, AISI304 stainless steel shaft and engineering polymer impellers and diffusers.

- **NRI ...** (duty hydraulic pump)

Single stage centrifugal pump with a horizontal axis, designed in accordance with EN 733 standards with a cast iron EN GJL 200 pump body, impeller and supports, stainless steel AISI 420 shaft, and ceramic and graphite mechanical seal.

- **NRB2 ...** (electric duty pump)

Single-stage centrifugal pump with a horizontal axis, designed in accordance with EN 733 standards with cast iron EN GJL 200 pump body, impeller and supports, stainless steel AISI 420 shaft, and ceramic and graphite mechanical seal. IP55 normalised electric motor.

The spacer coupling connects the motor and the hydraulics in order to ensure that both can be removed independently, so that the parts inside the pump can be inspected and replaced without the involvement of the suction or supply pipe.

- **VLR ...** (electric duty/pilot pump)

In line multi-cellular centrifugal electric pump made up of: a pump base and head in EN GJL 200 cast iron, shaft, and impeller diffusers in AISI304. Mechanical seal in silicon carbite for the rotating face and resin-impregnated graphite for the stationary face, diaphragm and o-ring in EPDM.

- **SA ...** (electric duty pump)

Submerged, multi-cellular centrifugal electric pump, with spherical delivery port in EN GJS 400 cast iron, shaft and jacket in stainless steel, engineering polymer, polycarbonate impellers and Noryl GNF 2V diffusers.

- **SCM4PLUS ...** (pilot electric pump)

Submerged, multi-cellular centrifugal electric pump, with stainless steel AISI 304 delivery port, suction flange, pump casing and non return valve. Polycarbonate diffusers with ceramic insert and acetal resin impellers.

COMPONENTI PRINCIPALI

Basamento

- Profilati in acciaio zincato

Ramo di mandata elettropompa principale

- Valvola di ritegno ispezionabile
- Valvola di intercettazione lucchettabile
- Pressostato di minima (difetto pompa)
- Manometro con valvola di prova
- Valvola tarabile di ricircolo

Circuito di prova pressostati per ogni pompa di servizio

- n.2 Valvole di ritegno
- n.2 Valvole di intercettazione
- n.2 Pressostati di avviamento

Tubazione di mandata

- In acciaio inox AISI 304

Ramo di mandata motopompa principale

- Valvola di ritegno ispezionabile
- Valvola di intercettazione lucchettabile
- Compensatore in gomma
- Manometro con valvola di prova
- Valvola tarabile di ricircolo

MAIN PARTS

Base

- Galvanised steel sections

Main electric pump supply branch

- Check valves accessible for inspection
- Lockable shut-off valve
- Minimum pressure gauge (pump defect)
- Manometer with test valve
- Adjustable re-circulation valve

Pressure gauge test circuit for each duty pump

- 2 Check valves
- 2 Shut-off valves
- 2 Start-up pressure gauges

Supply pipe

- AISI 304 stainless steel

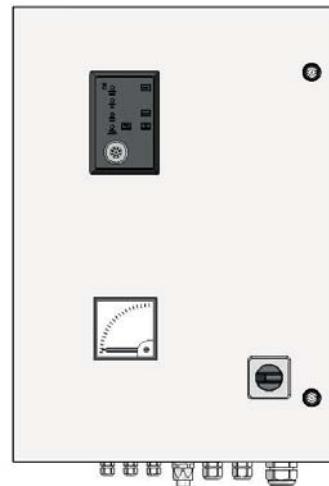
Main motor pump supply branch

- Check valves accessible for inspection
- Lockable shut-off valve
- Rubber compensator
- Manometer with test valve
- Adjustable re-circulation valve

Pilot electric pump supply branch

- Check valve
- Shut-off valve
- Start-up pressure gauge

QUADRO ELETTRICO ELETTROPOMPA PRINCIPALE ELECTRIC PANEL FOR THE MAIN ELECTRIC PUMP



Quadro elettrico

- Cassa metallica IP 54
- Interruttore generale bloccoporta
- Fusibili, contattore
- Avviatore stella - triangolo di serie per motori superiori a 7,5 kW
- Amperometro
- Batteria con carica batteria per garantire le segnalazioni in assenza di fase
- **Electric panel**
- *IP 54 Metal box*
- *Main door lock switch*
- *Fuses, contactor*
- *Standard star-delta starters for motors above 7.5kW*
- *Ammeter*
- *Battery with battery charger to ensure signals in case of phase loss*

Segnalazioni

- Segnalazione richiesta marcia
- Segnalazione presenza linea elettrica
- Segnalazione difetto avviamento
- Allarme di pompa in marcia
- Segnalazione di mancanza tensione,mancanza fase o sequenza fasi invertita
- Pulsante di marcia pompa
- Pulsante di arresto pompa
- Pulsante di prova lampade
- Pulsante tacitazione allarme acustico
- Allarme acustico 85 Db

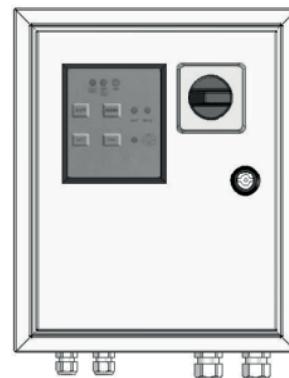
Signals

- *Run request signal*
- *Power supply line present signal*
- *Start-up fault signal*
- *Running pump alarm*
- *Power failure, phase loss or inverted phase sequence signal*
- *Run pump button*
- *Stop pump button*
- *Light test button*
- *Siren alarm silencing button*
- *Siren alarm 85 dB*

Dispositivi esterni di comando

- N.2 pressostati inversi regolabili collegati in serie
- **External commands**
- *2 adjustable inverse pressure gauges connected in a series*

QUADRO ELETTRICO ELETTROPOMPA PILOTA (opzionale) *ELECTRIC PANEL FOR THE PILOT ELECTRIC PUMP (optional)*



Quadro elettrico

- Cassa metallica IP54
- Interruttore generale
- Tastiera con scheda elettronica SA
- Contattore e motoprotettore
- Trasformatore con fusibili per circuito ausiliario

Electric panel

- IP54 metal box
- Main switch
- Keypad with SA electronic board
- Contactor and motor protector
- Transformer with fuses for the auxiliary circuit

Funzioni principali

- Controllo ON/OFF del livello della vasca di prima raccolta o della pressione della condotta di alimentazione attraverso un interruttore a galleggiante od un pressostato differenziale inverso.
- Temporizzazione, regolabile da 0 a 180 sec dopo l'apertura del contatto del funzionamento del pressostato.

Main functions

- ON/OFF controls for the first collection tank or for supply conduit pressure using a float switch or an inverse differential pressure gauge.
- Timer, adjustable from 0 to 180 seconds after the pressure gauge contact is opened.

Selezioni e comandi

- Spia led per la segnalazione della presenza di alimentazione elettrica.
- Spia led per la segnalazione di basso livello dell'acqua in vasca di prima raccolta o di pressione insufficiente nella condotta di alimentazione (acquedotto)
- Spia led per la segnalazione di funzionamento pompa in moto
- Spia led per la segnalazione dello scatto del relè termico di sovraccarico.
- Spia led di segnalazione di funzionamento manuale o automatico.
- Tasti per la scelta del comando manuale o automatico.
- Tasti per la marcia o l'arresto pompa quando è stato scelto il funzionamento manuale.

Switches and commands

- Led light signalling the presence of power.
- Led light signalling a low water level in the first collection tank or insufficient pressure in the supply conduit (water supply system)
- Led light signal that the motor pump is running
- Led light signal that the overload relay has been activated.
- Led light signal that it is running either in manual or automatic.
- Keys to select manual or automatic commands.
- Key to activate or stop the pump when the manual commands are used.

Dispositivi esterni di comando - External commands

- Pressostato differenziale regolabile ON/OFF - Adjustable differential pressure gauge ON/OFF

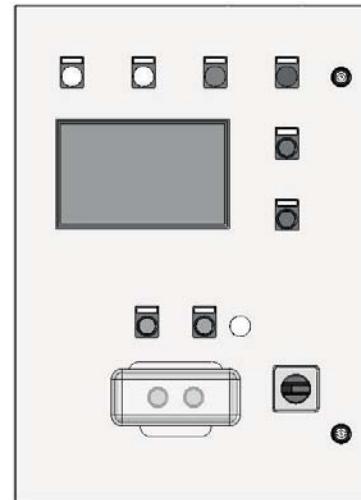
Dispositivi esterni di controllo (mancanza acqua)

- Interruttore a galleggiante ON/OFF posto nella vasca di raccolta acqua oppure n. 3 elettrodi per controllo elettronico del livello della vasca di prima raccolta oppure pressostato inverso inserito nella condotta di alimentazione idrica (acquedotto)

External controls (lack of water)

- ON/OFF float switch located in the water collection tank or 3 electrodes to run electronic controls on the level in the first collection tank, or inverted pressure gauge inserted in the water supply conduit (water supply system)

QUADRO ELETTRICO MOTOPOMPA ELECTRIC PANEL FOR THE MOTOR PUMP



Quadro elettrico

- Cassa metallica IP54
- Interruttore generale bloccoporta
- Trasformatore circuito ausiliario con fusibili
- Centralina elettronica di segnalazione comprendente:
 - Protezione bassa pressione olio
 - Spia ottica elevata temperatura motore
 - Spia ottica riserva carburante (opzionale)
 - Spia basso livello di carica batterie
 - n.1 contagiri
 - n.1 contatore funzionamento pompa.
 - n.1 voltmetro per ogni batteria
 - n.1 amperometro per ogni batteria
 - n.2 carica batterie
 - Avviamento automatico pompa sull'apertura del contatto del pressostato con 6 avviamenti
- Lampada di segnalazione presenza linea
- Lampada di segnalazione presenza tensione circuito ausiliario
- Lampada di segnalazione richiesta avviamento
- Selettore batteria per avviamento manuale
- Pulsante di arresto manuale
- Pulsante di avviamento manuale
- Segnalazione di richiesta avviamento manuale
- Pulsanti di avviamento emergenza su ciascuna delle batterie

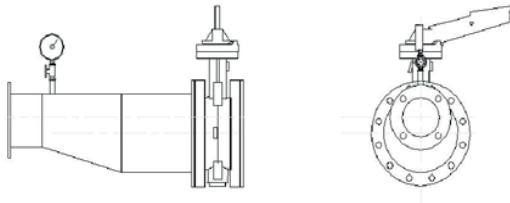
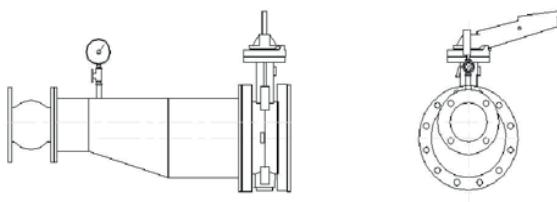
Electric panel

- IP54 metal box
- Main door lock switch
- Auxiliary circuit transformer with fuses
- Electronic signal unit, with:
 - Low oil pressure level protection
 - Elevated motor temperature light signal
 - Fuel reserve light signal (optional)
 - Low battery charger level light signal
 - 1 rev counter
 - 1 pump functioning meter.
 - 1 voltmeter for each battery
 - 1 ampmetre for each battery
 - 2 battery chargers
 - Automatic pump start-up on opening the pressure gauge contact with 6 start-ups
- Line presence signal light
- Auxiliary circuit voltage presence signal light
- Start-up request signal light
- Battery switch for manual start-up
- Manual stop button
- Manual start-up button
- Manual start-up request signal
- Emergency start-up buttons on each battery

Dispositivi esterni di comando - External commands

- Pressostato differenziale inverso regolabile ON/OFF
- Adjustable differential inverse pressure gauge ON/OFF

ACCESSORI A RICHIESTA - ACCESSORIES AVAILABLE ON REQUEST

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Quadro esterno di controllo e allarme Elettropompa/Motopompa <i>External control and alarm panel Electric pump / motor pump</i></p> |  <p>Misuratore di portata <i>Flow meter</i></p> |  <p>Kit lucchetti per serraggio valvole <i>Lock kit to lock valves</i></p> |
|  <p>Serbatoio gasolio <i>Diesel tank</i></p> |  <p>Serbatoio di adescamento da 500 lt <i>500 l priming tank</i></p> |  <p>Vaso espansione per pompa pilota <i>Expansion tank for the pilot pump</i></p> |
|  | |  |
| <p>Kit coni eccentrici per elettropompe <i>Kit with eccentric cones for electric pumps</i></p> | | <p>Kit coni eccentrici per motopompe <i>Kit with eccentric cones for motor pumps</i></p> |

REALIZZAZIONI SPECIALI A RICHIESTA "Versioni RC" richiesta cliente (contattare il servizio Pre-Vendita)

- Gruppi con elettropompa pilota fornita come kit.
- Gruppi con tensione di alimentazioni differenti dallo standard.
- Gruppi con segnalazione/allarmi differenti dallo standard.
- Gruppi con collegamento all'acquedotto
- Quadri di comando con grado di protezione IP55
- Gruppi all'interno di box prefabbricati da esterno

SPECIAL FEATURES PROVIDED UPON REQUEST "RC Versions" upon the customer's request

(Contact the Pre-Sales service)

- Units with a pilot electric pump provided as a kit.
- Units with power voltages other than standard ones.
- Units with signals/alarms other than standard ones.
- Units connected to the water supply system
- Control panel with IP55 protection level
- Units inside a box prefabricated from the outside

NOTE - NOTES

Il gruppo è fornito senza valvole e collettore di aspirazioni. Consultare la norma UNI EN 12845 per dimensionare le tubazioni in aspirazione per definire i limiti di utilizzo e per definire se l'installazione è soprabattente o sottobattente.

The unit is supplied without valves and suction manifold. Please see UNI EN 12845 standards to size suction pipes in order to define usage limits and identify whether installation is above or below the water level.

TABELLA DATI ELETTRICI
ELECTRIC DATA TABLE
Elettropompa pilota 3x400V
Pilot electric pump 3x400V

| Mod | P2 (out) | | A |
|------------------|----------|------|-----|
| | Kw | HP | |
| MXV 200/40 | 0,8 | 1 | 2 |
| MXV 200/52 | 1,1 | 1,5 | 2,9 |
| MXV 200/65 | 1,4 | 2,9 | 3,6 |
| MXV 200/80 | 1,7 | 2,3 | 4,6 |
| MXV 200/90 | 1,9 | 2,5 | 4,8 |
| MXV 200/110 | 2,6 | 3,5 | 5,6 |
| VLR2B/40 | 0,55 | 0,75 | 1,5 |
| VLR2B/50 | 0,55 | 0,75 | 1,5 |
| VLR2B/60 | 0,75 | 2 | 2 |
| VLR2B/70 | 0,75 | 2 | 2 |
| VLR2B/90 | 1,1 | 1,5 | 2,6 |
| VLR2B/110 | 1,1 | 1,5 | 2,6 |
| VLR2B/130 | 1,5 | 2 | 3,5 |
| SCM4 PLUS 55/80 | 0,55 | 0,75 | 1,6 |
| SCM4 PLUS 55/105 | 0,75 | 1 | 2,1 |
| SCM4 PLUS 75/140 | 1,5 | 2 | 4 |

Elettropompa di servizio ad asse orizzontale 3x400/690V
Electric duty pump with horizontal axis 3x400/690V

| Mod | P2 (out) | | A |
|--------------|----------|-------|-------|
| | Kw | HP | |
| NRB2 32x160A | 3,0 | 4,0 | 6,4 |
| NRB2 32x200C | 4,0 | 5,5 | 8,5 |
| NRB2 32x200B | 5,5 | 7,5 | 11,3 |
| NRB2 32x200A | 7,5 | 10,0 | 15,0 |
| NRB2 50x160A | 7,5 | 10,0 | 15,0 |
| NRB2 50x200C | 7,5 | 10,0 | 15,0 |
| NRB2 50x200B | 9,2 | 12,5 | 18,0 |
| NRB2 50x200A | 11,0 | 15,0 | 20,5 |
| NRB2 50x250D | 15,0 | 20,0 | 27,0 |
| NRB2 50x250C | 18,5 | 25,0 | 32,0 |
| NRB2 50x250B | 22,0 | 30,0 | 39,0 |
| NRB2 50x250A | 30,0 | 40,0 | 52,0 |
| NRB2 80x160A | 18,5 | 25,0 | 32,0 |
| NRB2 80x200C | 22,0 | 30,0 | 39,0 |
| NRB2 80x200B | 30,0 | 40,0 | 52,0 |
| NRB2 80x200A | 37,0 | 50,0 | 65,0 |
| NRB2 80x250D | 37,0 | 50,0 | 65,0 |
| NRB2 80x250C | 45,0 | 60,0 | 78,0 |
| NRB2 80x250B | 55,0 | 75,0 | 95,0 |
| NRB2 80x250A | 75,0 | 100,0 | 127,0 |

| Mod | P2 (out) | | A |
|---------------|----------|-------|-------|
| | Kw | HP | |
| NRB2 40x160A | 4,0 | 5,5 | 8,5 |
| NRB2 40x200C | 5,5 | 7,5 | 11,3 |
| NRB2 40x200B | 7,5 | 10,0 | 15,0 |
| NRB2 40x200A | 9,2 | 12,5 | 18,0 |
| NRB2 40x250C | 11,0 | 15,0 | 20,5 |
| NRB2 40x250B | 15,0 | 20,0 | 27,0 |
| NRB2 40x250A | 18,5 | 25,0 | 32,0 |
| NRB2 65x160B | 11,0 | 15,0 | 20,5 |
| NRB2 65x160A | 15,0 | 20,0 | 27,0 |
| NRB2 65x200C | 18,5 | 25,0 | 32,0 |
| NRB2 65x200B | 22,0 | 30,0 | 39,0 |
| NRB2 65x200A | 30,0 | 40,0 | 52,0 |
| NRB2 65x250C | 30,0 | 40,0 | 52,0 |
| NRB2 65x250B | 37,0 | 50,0 | 65,0 |
| NRB2 65x250A | 45,0 | 60,0 | 78,0 |
| NRB2 100X200D | 22,0 | 30,0 | 39,0 |
| NRB2 100X200C | 30,0 | 40,0 | 52,0 |
| NRB2 100X200B | 37,0 | 50,0 | 65,0 |
| NRB2 100X200A | 45,0 | 60,0 | 78,0 |
| NRB2 100X250D | 45,0 | 60,0 | 78,0 |
| NRB2 100X250C | 55,0 | 75,0 | 95,0 |
| NRB2 100X250B | 75,0 | 100,0 | 127,0 |
| NRB2 100X250A | 90,0 | 125,0 | 152,0 |

TABELLA DATI ELETTRICI
ELECTRIC DATA TABLE

Elettropompa di servizio ad asse verticale 3x400V
Electric duty pump with vertical axis 3x400V

| Mod | P2 (out) | | A |
|----------|----------|-----|-----|
| | Kw | HP | |
| VLR8/30 | 1,1 | 1,5 | 2,6 |
| VLR8/40 | 1,5 | 2,0 | 3,5 |
| VLR8/50 | 2,2 | 3,0 | 4,9 |
| VLR8/60 | 2,2 | 3,0 | 4,9 |
| VLR8/80 | 3,0 | 4,0 | 6,7 |
| VLR8/100 | 4,0 | 5,5 | 8,3 |

| Mod | P2 (out) | | A |
|----------|----------|------|------|
| | Kw | HP | |
| VLR16/30 | 3,0 | 4,0 | 6,7 |
| VLR16/40 | 4,0 | 5,5 | 8,3 |
| VLR16/50 | 5,5 | 7,5 | 11,3 |
| VLR16/60 | 5,5 | 7,5 | 11,3 |
| VLR16/70 | 7,5 | 10,0 | 14,3 |

| Mod | P2 (out) | | A |
|---------|----------|------|------|
| | Kw | HP | |
| VLR32-2 | 4,0 | 5,5 | 8,6 |
| VLR32-3 | 5,5 | 7,5 | 10,9 |
| VLR32-4 | 7,5 | 10,0 | 14,7 |
| VLR32-5 | 11,0 | 15,0 | 21,0 |

| Mod | P2 (out) | | A |
|----------|----------|------|------|
| | Kw | HP | |
| VLR66-20 | 11,0 | 15,0 | 21,0 |
| VLR66-30 | 18,5 | 25,0 | 32,0 |
| VLR66-40 | 22,0 | 30,0 | 40,0 |

Elettropompa di servizio sommersa 3x400V
Submerged electric duty pump 3x400V

| Mod | P2 (out) | | A |
|----------|----------|-----|------|
| | Kw | HP | |
| SA 615/4 | 2,2 | 3,0 | 5,9 |
| SA 615/5 | 3,0 | 4,0 | 7,8 |
| SA 615/6 | 4,0 | 5,5 | 10,0 |
| SA 625/4 | 4 | 5,5 | 10,0 |
| SA 625/6 | 5,5 | 7,5 | 13,7 |
| SA 625/8 | 7,5 | 10 | 16,0 |

| Mod | P2 (out) | | A |
|----------|----------|------|------|
| | Kw | HP | |
| SA 630/4 | 5,5 | 7,5 | 13,7 |
| SA 630/5 | 7,5 | 10,0 | 16,0 |
| SA 630/8 | 11,0 | 15,0 | 23,3 |
| SA 650/4 | 7,5 | 10 | 16,0 |
| SA 650/6 | 11 | 15 | 23,3 |
| SA 650/9 | 15 | 20 | 31,3 |

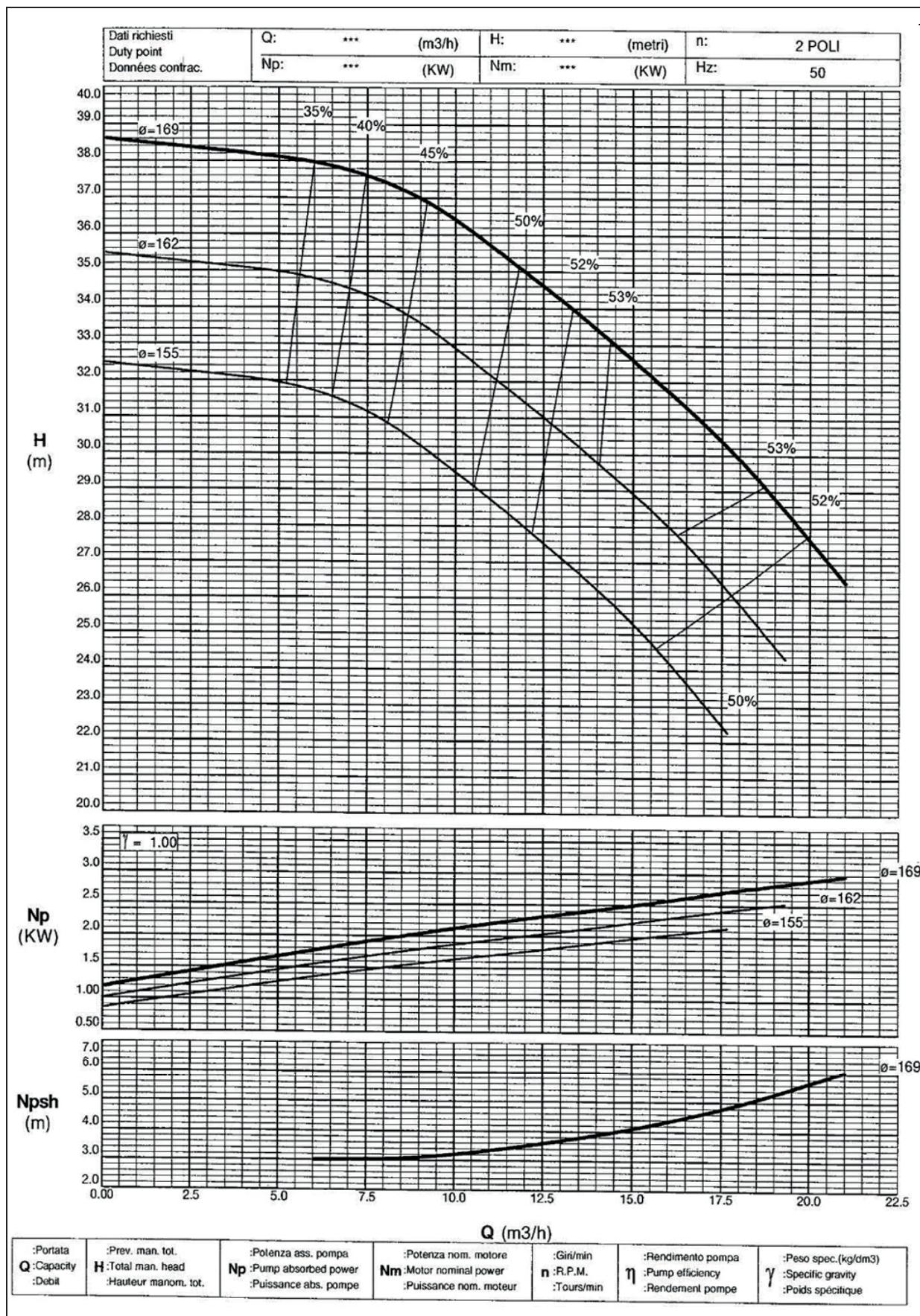


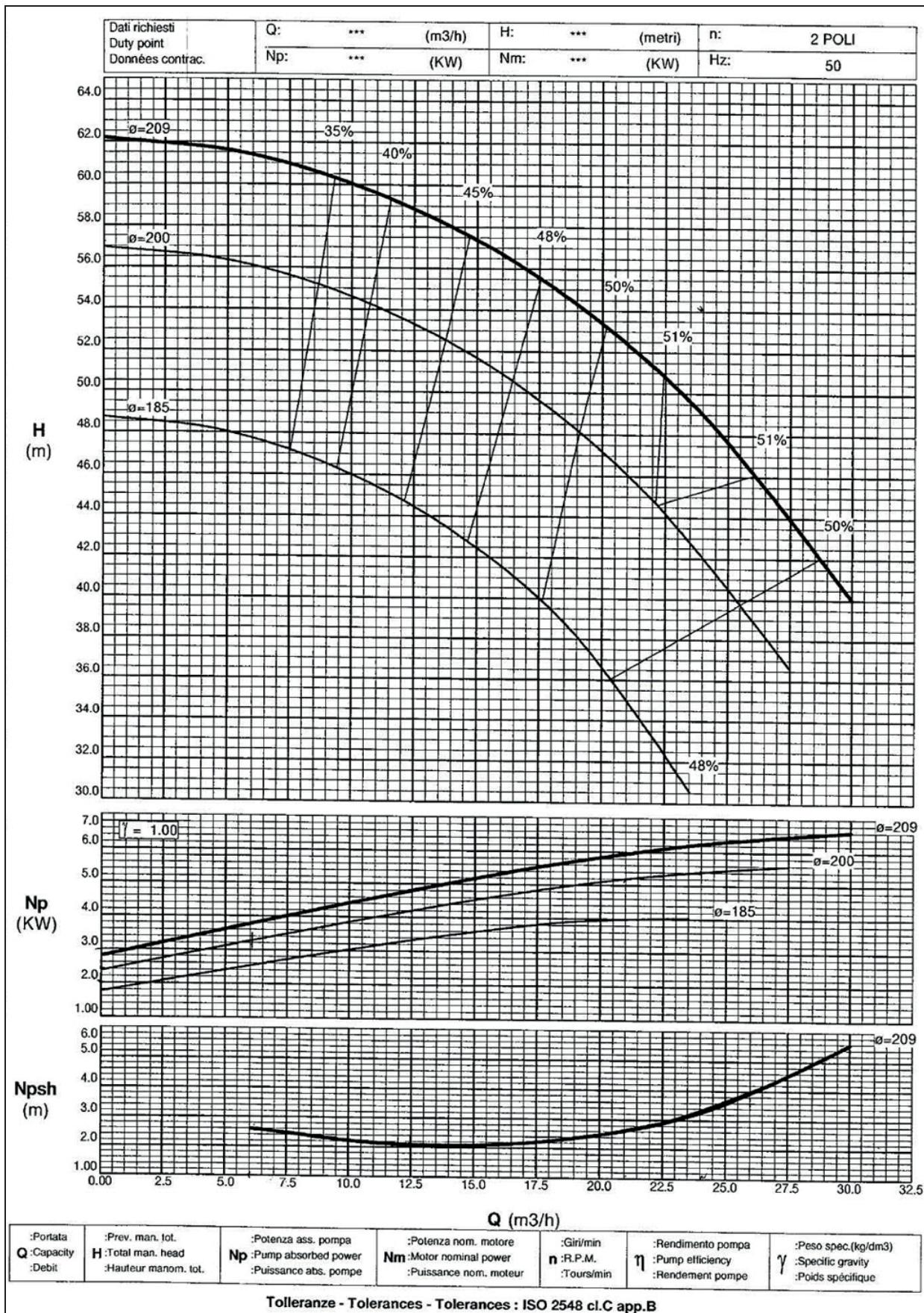
TABELLA DELLE PRESTAZIONI ELETTROPOMPA PILOTA
PILOT ELECTRIC PUMP PERFORMANCE TABLE

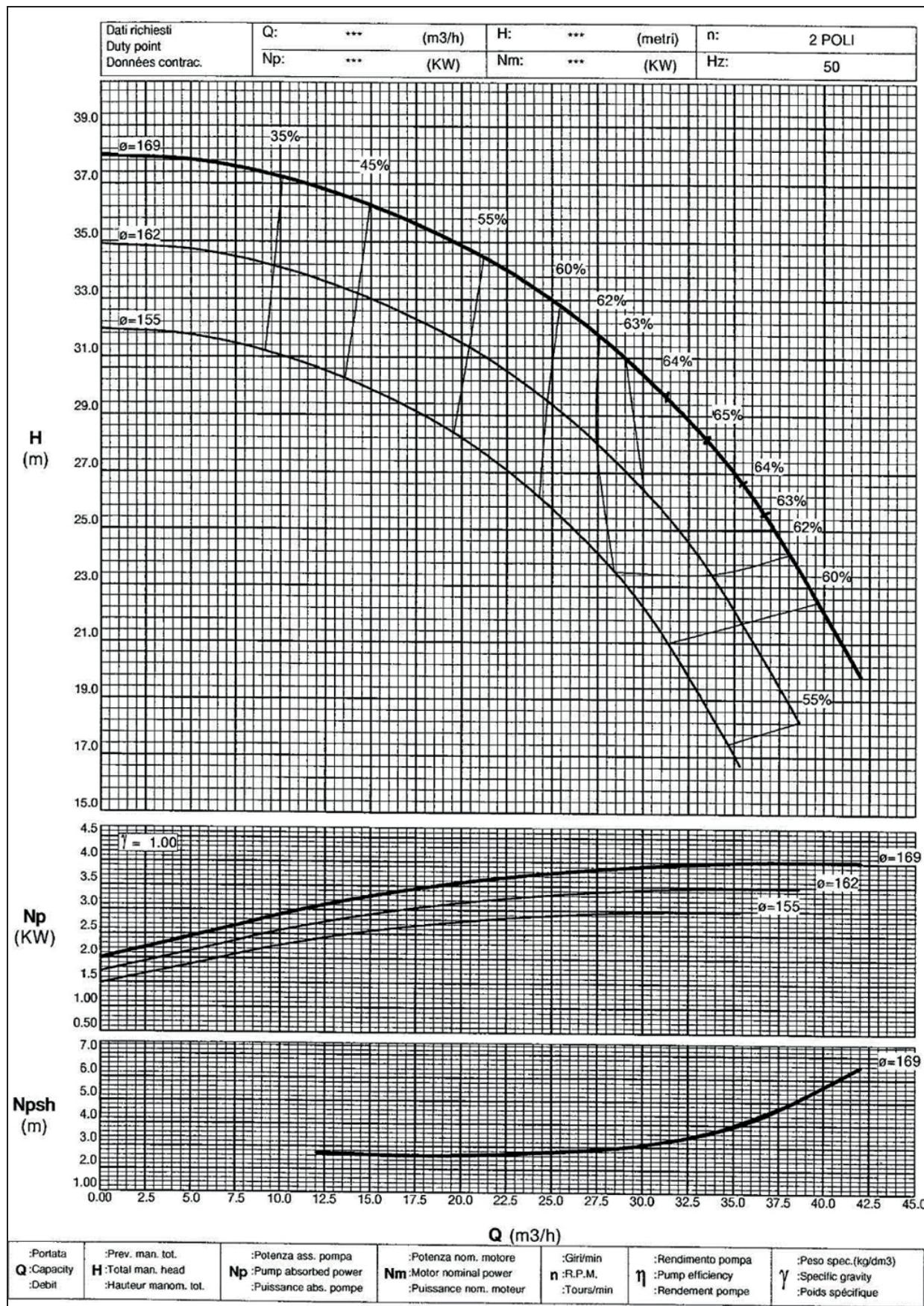
| Mod | I/1' | 20 | 40 | 80 | 120 | 160 |
|-----------|------------|-------|-------|------|------|------|
| | mc/h | 1,2 | 2,4 | 4,8 | 7,2 | 9,6 |
| MXV200/40 | mca mwc | 35,0 | 33,0 | 28,0 | 20,0 | 10,0 |
| | | 48,0 | 45,0 | 39,0 | 29,0 | 16,0 |
| | | 60,0 | 57,0 | 50,0 | 38,0 | 21,0 |
| | | 72,0 | 68,0 | 60,0 | 47,0 | 27,0 |
| | | 83,0 | 78,0 | 67,0 | 52,0 | 28,0 |
| | | 107,0 | 103,0 | 90,0 | 68,0 | 35,0 |

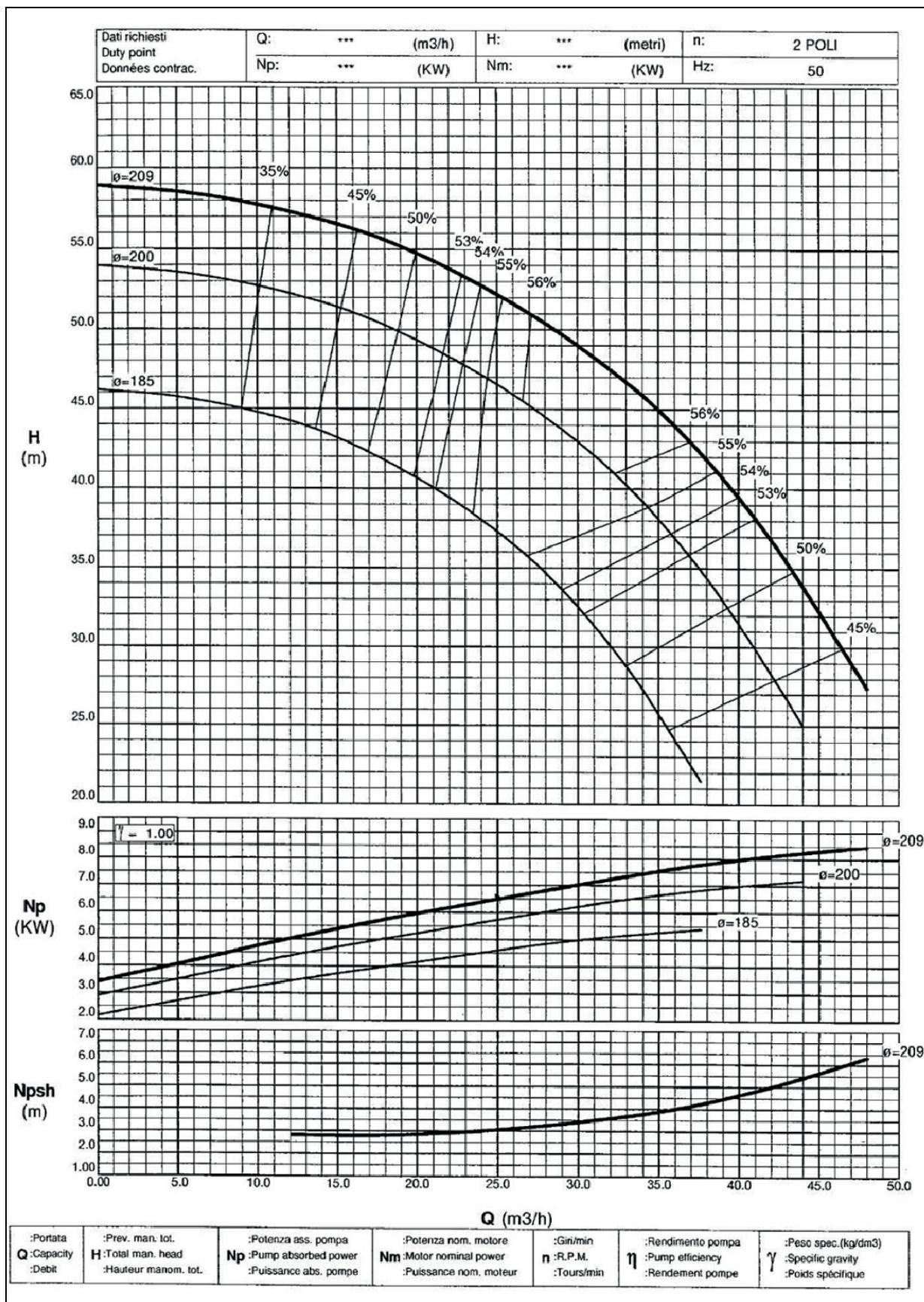
TABELLA DELLE PRESTAZIONI POMPA PRINCIPALE ASSE ORIZZONTALE
HORIZONTAL AXIS MAIN PUMP PERFORMANCE TABLE

| Mod | I/1' | 0 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | | | | |
|--------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | mc/h | 0 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | | | | |
| NRI 32x160A | m.c.a. m.w.c. | 38,6 | 38 | 36,5 | 35 | 32,5 | 30 | 26,5 | | | | | | |
| | | 48,7 | 47,5 | 46,5 | 44,5 | 42,5 | 39 | 35 | | | | | | |
| | | 57 | 56 | 55 | 53,5 | 51,5 | 49,5 | 46 | 42 | 37 | | | | |
| | | 62,2 | 61 | 60,5 | 59 | 57,5 | 55 | 52,5 | 49 | 45 | | | | |
| | | 0 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 |
| | | mc/h | 0 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 |
| NRI 40x160A | m.c.a. m.w.c. | 38 | 37 | 36,5 | 35,5 | 34,5 | 33,5 | 32,5 | 31 | 29 | 26,5 | | | |
| | | 46 | 43,5 | 43 | 42 | 40 | 38 | 36 | 33 | 29 | 24 | | | |
| | | 54 | 52 | 51 | 50 | 49 | 47 | 45 | 43 | 40 | 37 | 33 | 28 | |
| | | 59 | 57 | 56,5 | 55,5 | 54 | 53 | 51 | 49 | 47 | 44 | 41 | 37 | |
| | | 74 | 73 | 72 | 71 | 70 | 67,5 | 65 | 62 | 57 | 51 | 44 | | |
| | | 83,5 | 82,5 | 82 | 81 | 80 | 79 | 77 | 75 | 72 | 68 | 63 | 56 | |
| NRI 40x250A | m.c.a. m.w.c. | 94 | 93 | 92,5 | 92 | 91 | 90 | 88 | 86 | 84 | 81 | 77 | 72 | 67 |
| | | 0 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | |
| | | mc/h | 0 | 24 | 27 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 |
| | | 37,4 | 37 | 36,5 | 36 | 35 | 34 | 32,5 | 31 | 29 | 26 | | | |
| | | 48,2 | 47 | 46,5 | 45 | 43 | 40 | 36 | 31,5 | | | | | |
| | | 53,5 | 52,5 | 52 | 51,5 | 49,5 | 46,5 | 43,5 | 39,5 | 35 | | | | |
| NRI 50x160A | m.c.a. m.w.c. | 58,2 | 57,5 | 57 | 56,5 | 55 | 53 | 50 | 46,5 | 43 | | | | |
| | | 72,5 | 71,25 | 70 | 69,5 | 67,5 | 65 | 61,5 | 57,5 | 51 | | | | |
| | | 79 | 78 | 77 | 76,5 | 75 | 72,5 | 69,5 | 66 | 61,5 | 55,5 | | | |
| | | 89,5 | 88,75 | 88 | 87,5 | 86 | 84 | 82 | 78,5 | 74,5 | 69 | | | |
| | | 96 | 95,25 | 94,5 | 94 | 93 | 91,5 | 89,5 | 86,5 | 83,5 | 80 | 75,5 | 70 | |
| | | 0 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 |
| NRI 65x160B | m.c.a. m.w.c. | mc/h | 0 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 108 |
| | | 34,2 | 33,8 | 33 | 32,5 | 32 | 31,5 | 30,5 | 29,5 | 28,5 | 27 | 25,5 | 22,5 | |
| | | 41,5 | 40,8 | 40 | 39,5 | 39 | 38,5 | 38 | 37,5 | 36,5 | 35,5 | 34,5 | 32 | 29 |
| | | 52,2 | 51,6 | 51 | 50,6 | 50,4 | 50,2 | 50,1 | 49,7 | 48,6 | 47,5 | 46 | 43 | 39 |
| | | 58 | 57,75 | 57,5 | 57 | 56,6 | 56,5 | 56,3 | 56 | 55,5 | 54,5 | 53,5 | 50,5 | 47,5 |
| | | 63 | 62,5 | 62 | 61,7 | 61,5 | 61,3 | 61,1 | 61 | 60,5 | 60 | 59 | 57,5 | 55 |
| NRI 65x250C | m.c.a. m.w.c. | 73,2 | 72,6 | 72 | 71,5 | 71 | 70 | 68,5 | 67 | 65 | 63,3 | 61,2 | 57 | |
| | | 83 | 82,75 | 82,5 | 82 | 81,5 | 80,5 | 79,5 | 78,5 | 77 | 75,5 | 74 | 70 | 65,5 |
| | | 93 | 92,75 | 92,5 | 92 | 91,5 | 91 | 90 | 89 | 88 | 87 | 86 | 82 | 72,5 |
| | | 0 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 |
| | | mc/h | 0 | 72 | 78 | 84 | 90 | 96 | 108 | 120 | 135 | 150 | 165 | 180 |
| | | 39,2 | 38 | 37,8 | 37,6 | 37,2 | 36,8 | 36,5 | 35,5 | 34,5 | 33 | 31,5 | 29 | 27 |
| NRI 80x160A | m.c.a. m.w.c. | 46,5 | 44,6 | 44,5 | 44 | 43,5 | 43 | 42 | 40,5 | 38,5 | 36,5 | 33,5 | 31 | |
| | | 54 | 53 | 52,5 | 52 | 51,5 | 51 | 50,5 | 49,5 | 48 | 46 | 44 | 41,5 | 38,5 |
| | | 59 | 58,5 | 58 | 57,5 | 57 | 56,5 | 56 | 55,5 | 54 | 52,5 | 50,5 | 48,5 | 46 |
| | | 70 | 69,5 | 69,0 | 68,5 | 68 | 67,5 | 66,5 | 65 | 62,5 | 60 | 56 | 51 | |
| | | 76 | 76,1 | 75,6 | 75,1 | 74,6 | 74,5 | 73,5 | 72,5 | 70,5 | 68 | 65 | 61,5 | 57,5 |
| | | 85,5 | 85,5 | 85,0 | 84,5 | 84 | 83,5 | 83 | 82 | 81 | 78,5 | 76 | 73,5 | 70 |
| NRI 80x250A | m.c.a. m.w.c. | 92 | 92,0 | 91,5 | 91,0 | 90,5 | 90 | 89,5 | 89 | 87,5 | 86 | 84 | 81,5 | 78,5 |
| | | 0 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 | 4000 | 4500 | 5000 | 5500 | |
| | | mc/h | 0 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 240 | 270 | 300 | 330 |
| | | 39,5 | 37,5 | 36,5 | 35 | 33,5 | 31,5 | 29 | 27 | 20,5 | | | | |
| | | 46,8 | 45 | 44,5 | 43,5 | 42,5 | 41 | 39,5 | 37,5 | 33 | 27 | | | |
| | | 51,8 | 50,5 | 50 | 49,5 | 48,5 | 47,5 | 46,5 | 45 | 41,5 | 36,5 | 31 | | |
| NRI 100X200D | m.c.a. m.w.c. | 56,5 | 55,5 | 55 | 54,5 | 54 | 53 | 52 | 51 | 48 | 43,5 | 38 | | |
| | | 68 | 66,5 | 66 | 65 | 63,5 | 61,5 | 58,5 | 56 | 49,5 | | | | |
| | | 74 | 73 | 72,5 | 72 | 71 | 69,5 | 68 | 66 | 61 | 53,5 | | | |
| | | 84,2 | 83 | 82,8 | 82,5 | 82 | 81 | 79,5 | 78 | 74 | 70 | 63 | 55 | |
| | | 90,5 | 89,5 | 89,3 | 89 | 88,2 | 87,5 | 86,5 | 85,5 | 82,5 | 78 | 73 | 65 | |

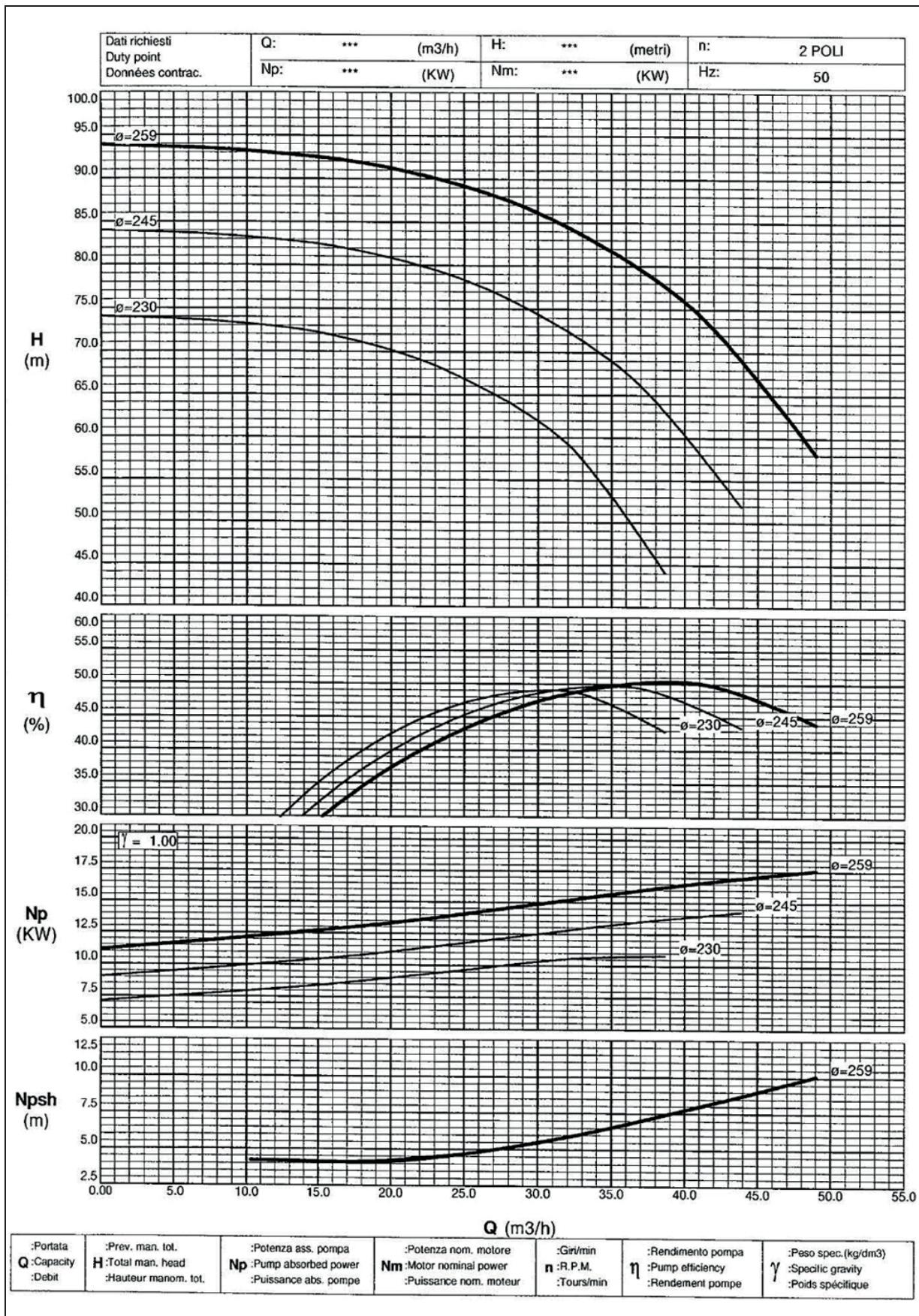
CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 32/160 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 32/160 A-B-C


CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 32/200 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 32/200 A-B-C


CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 40/160 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 40/160 A-B-C


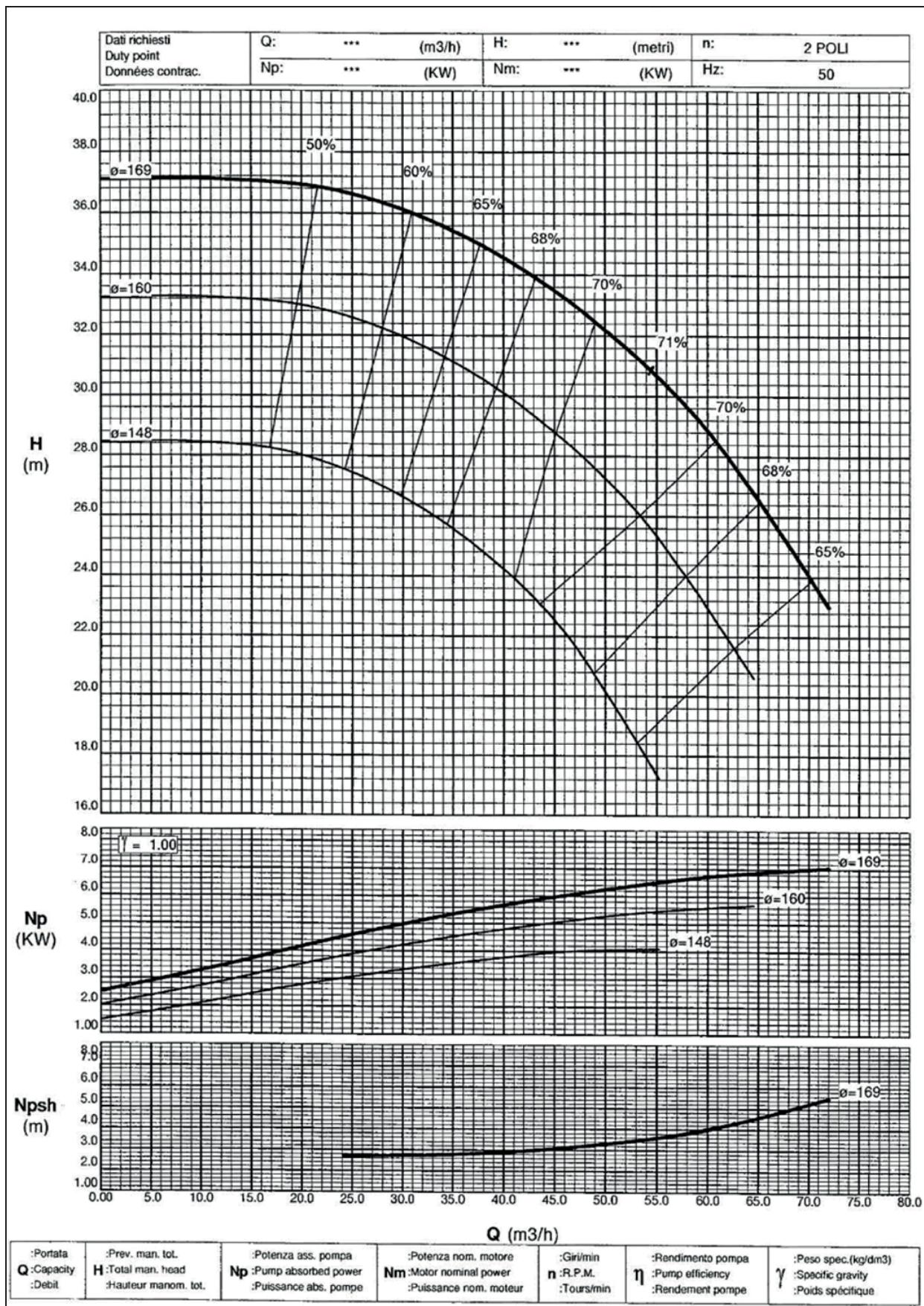
CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 40/200 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 40/200 A-B-C


CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 40/250 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 40/250 A-B-C

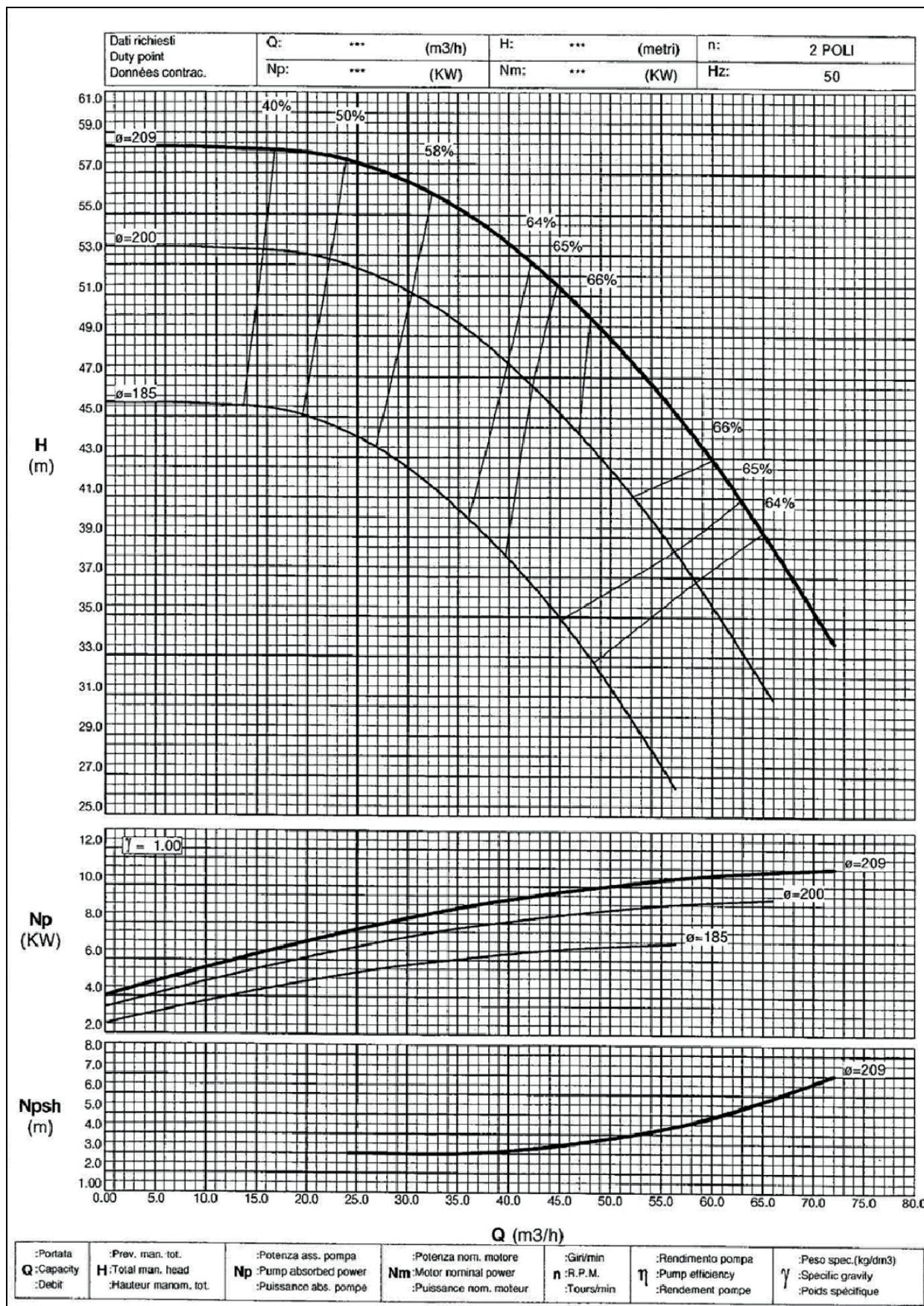


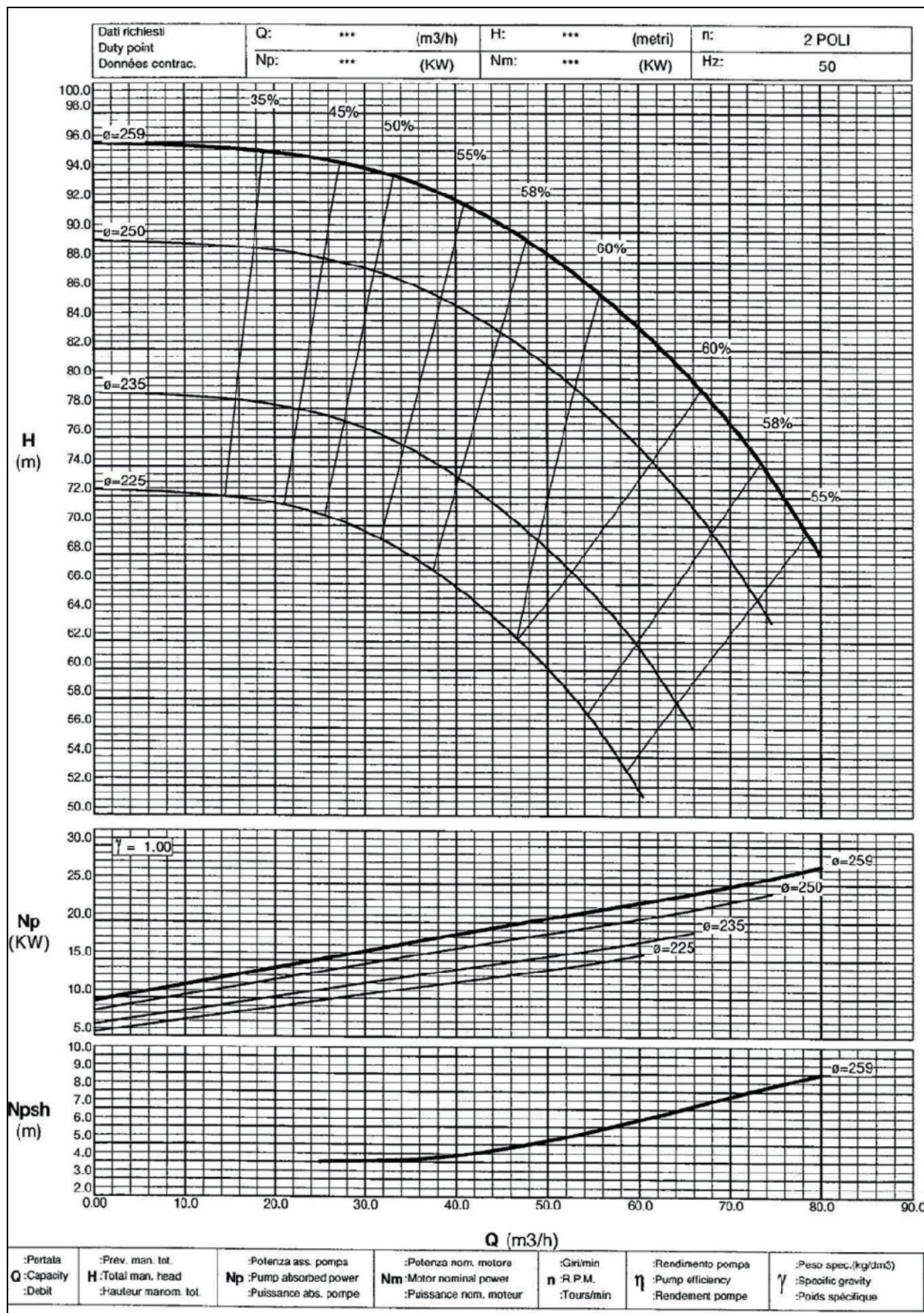


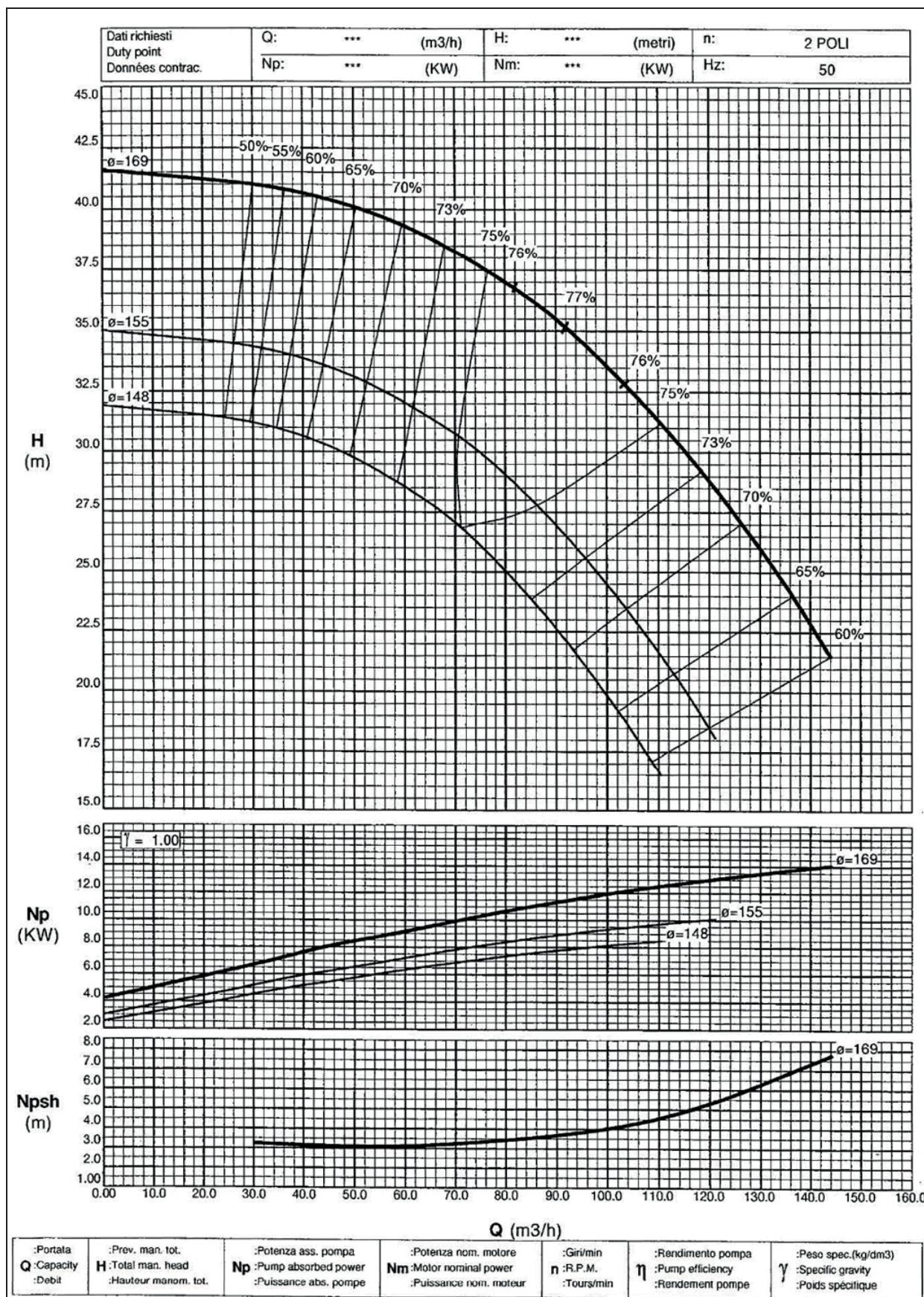
CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 50/160 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 50/160 A-B-C

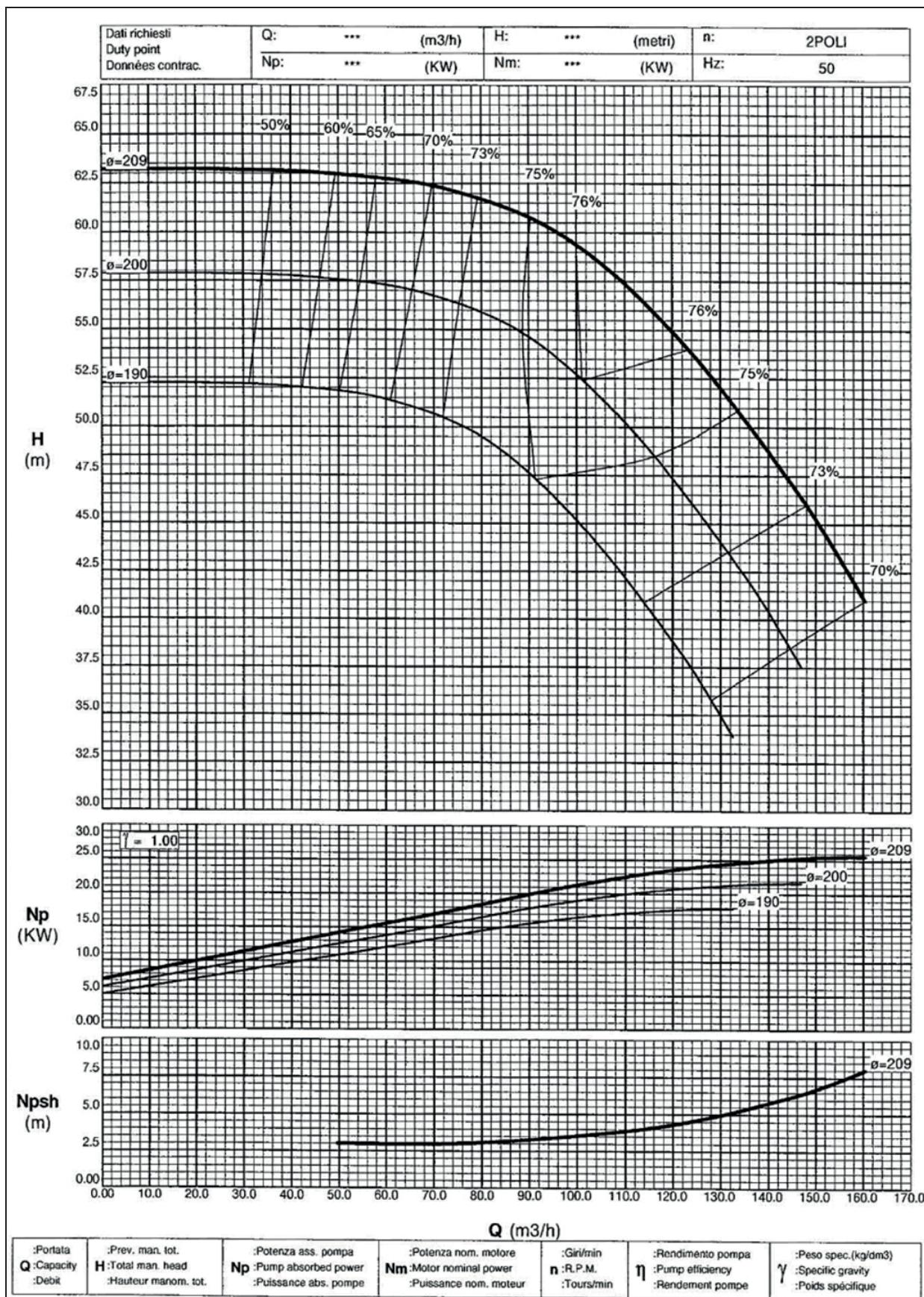


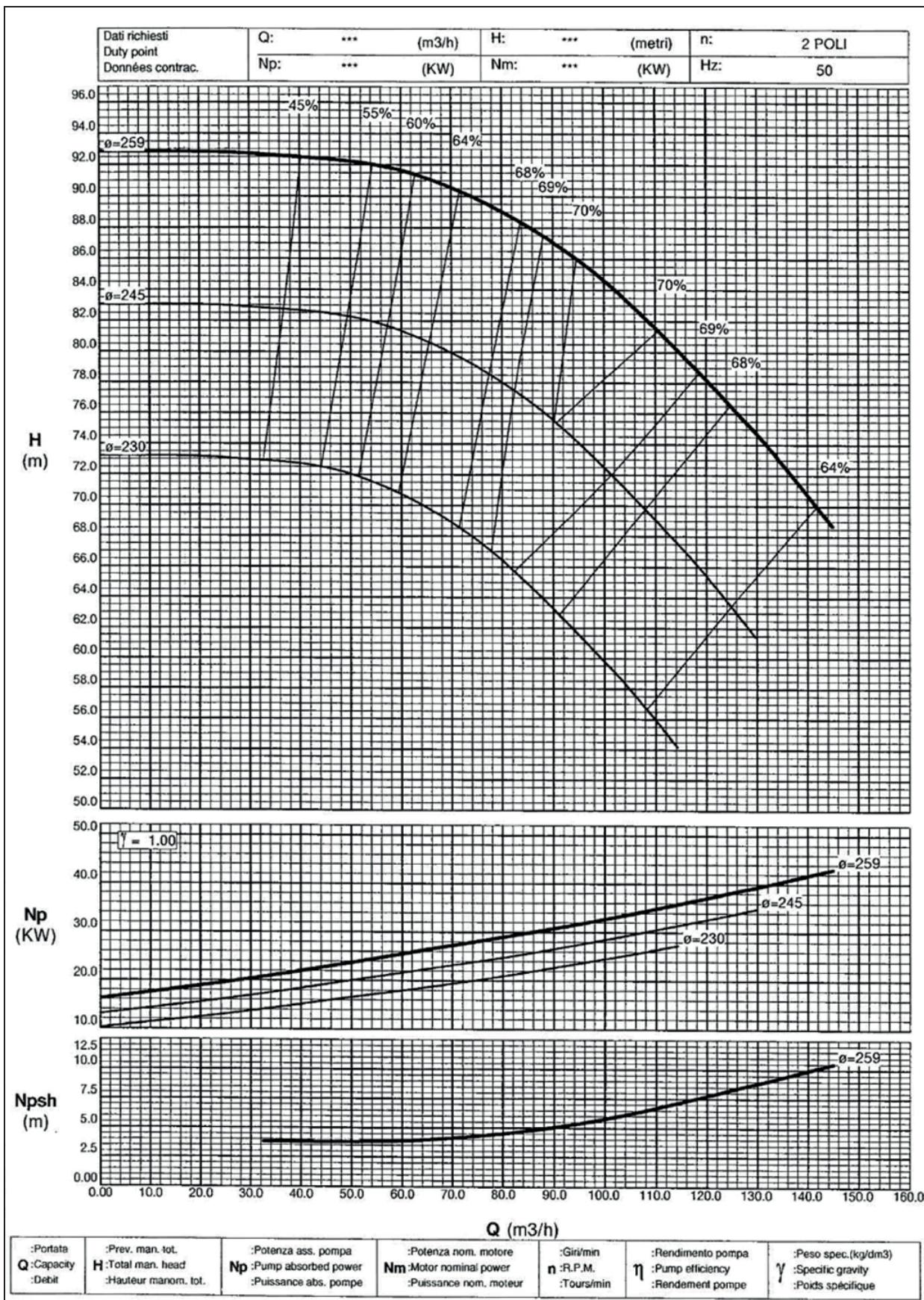
CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 50/200 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 50/200 A-B-C

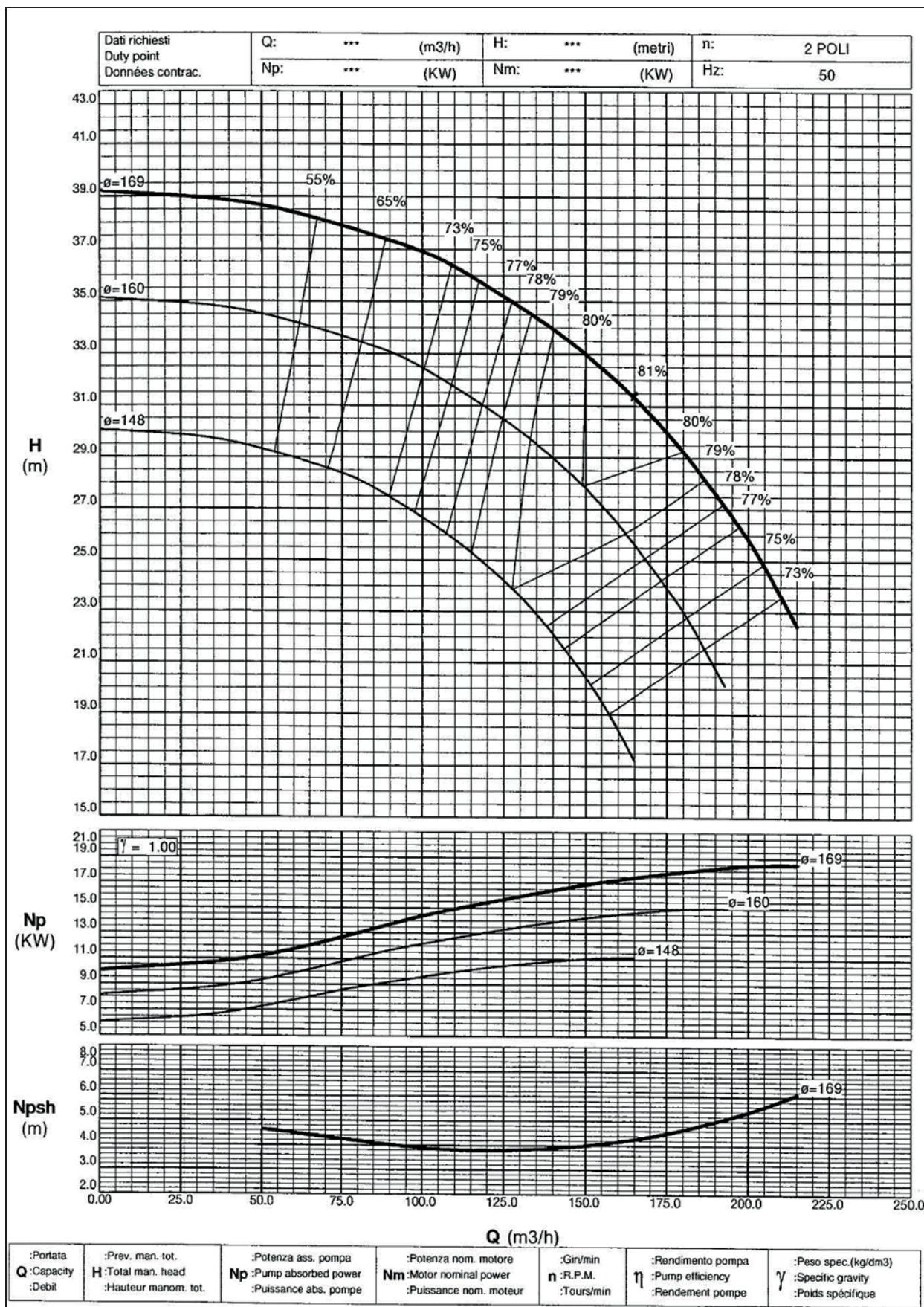


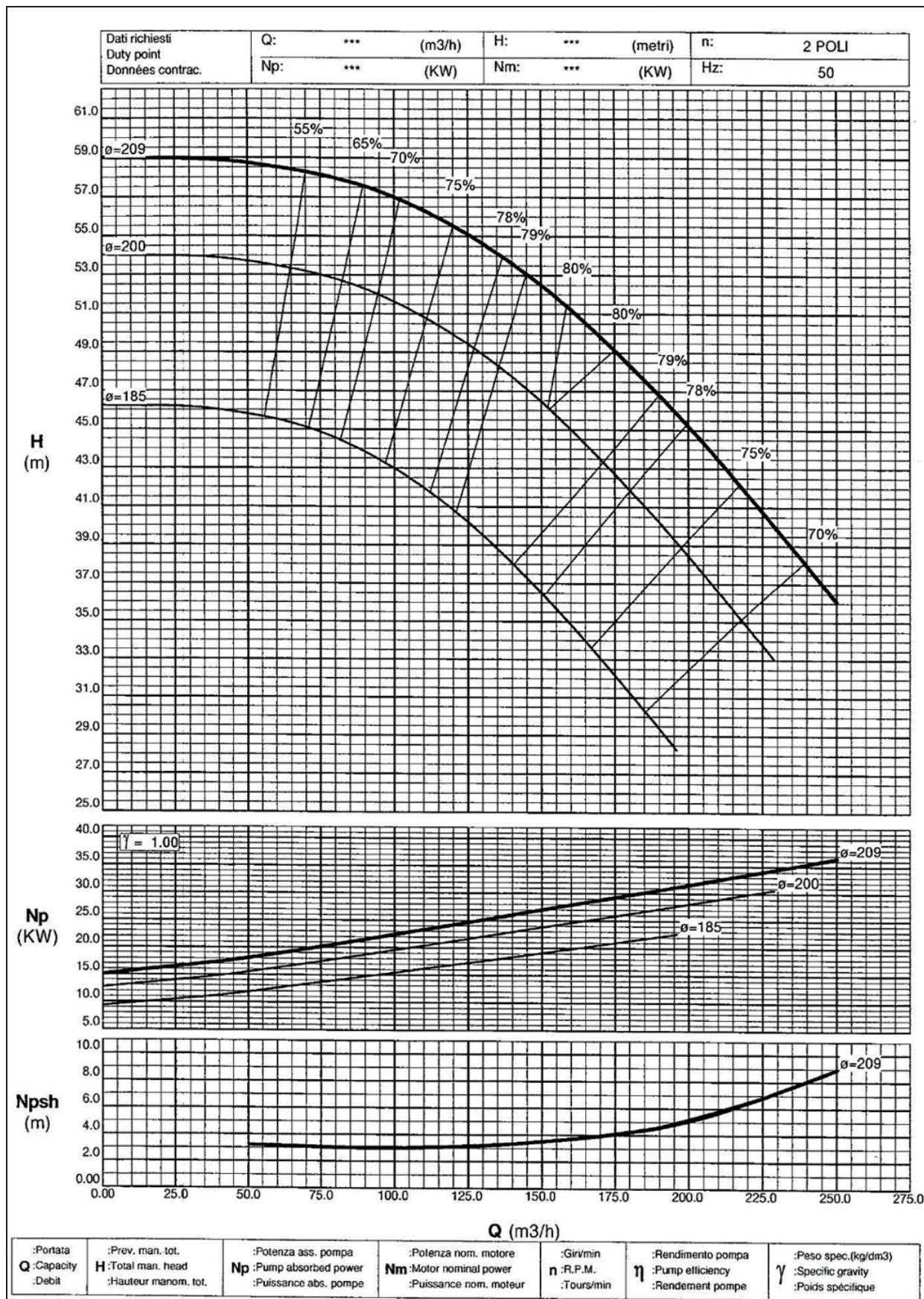
CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 50/250 A-B-C-D
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 50/250 A-B-C-D


CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 65/160 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 65/160 A-B-C


CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 65/200 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 65/200 A-B-C


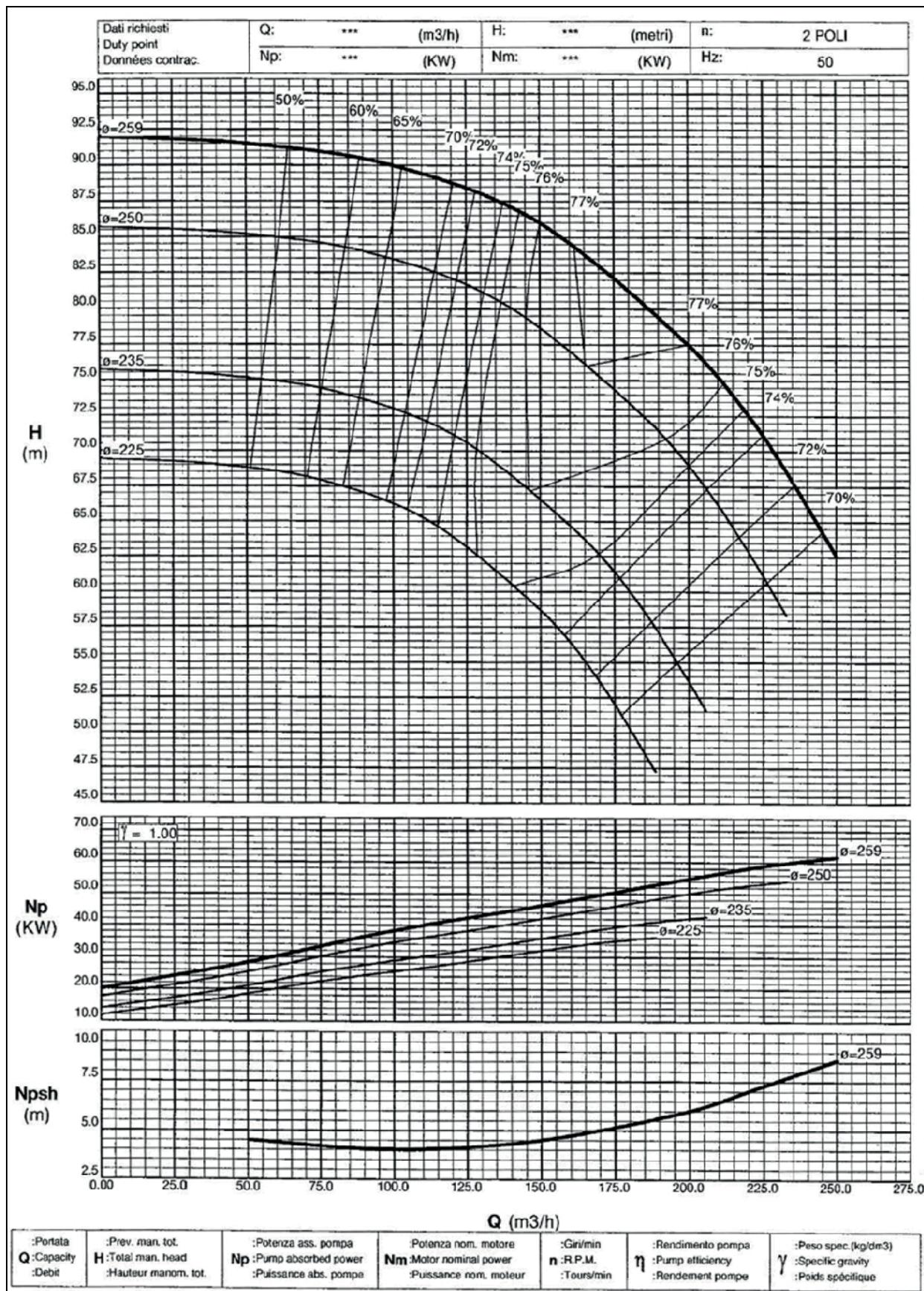
CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 65/250 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 65/250 A-B-C


CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 80/160 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 80/160 A-B-C


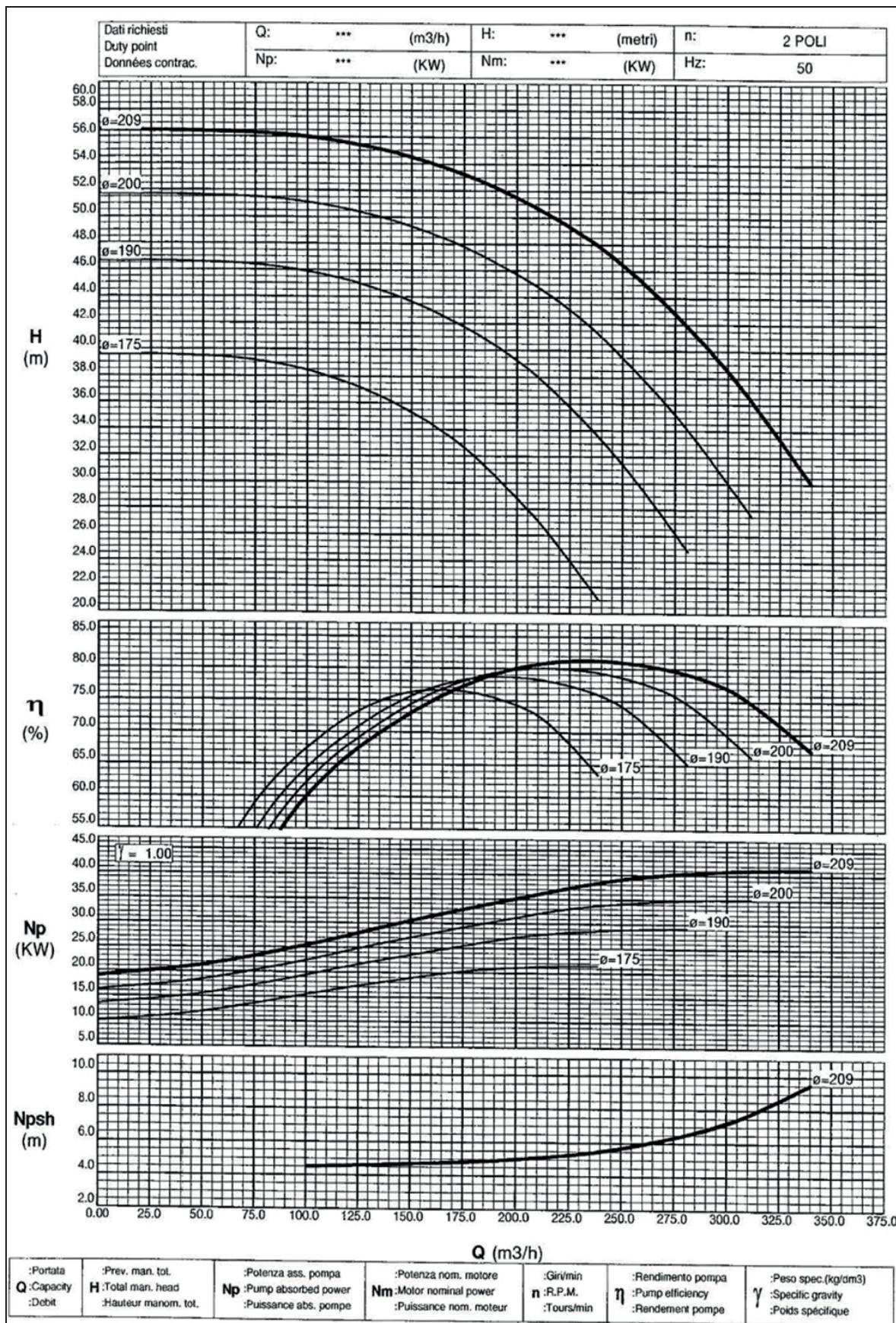
CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 80/200 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 80/200 A-B-C


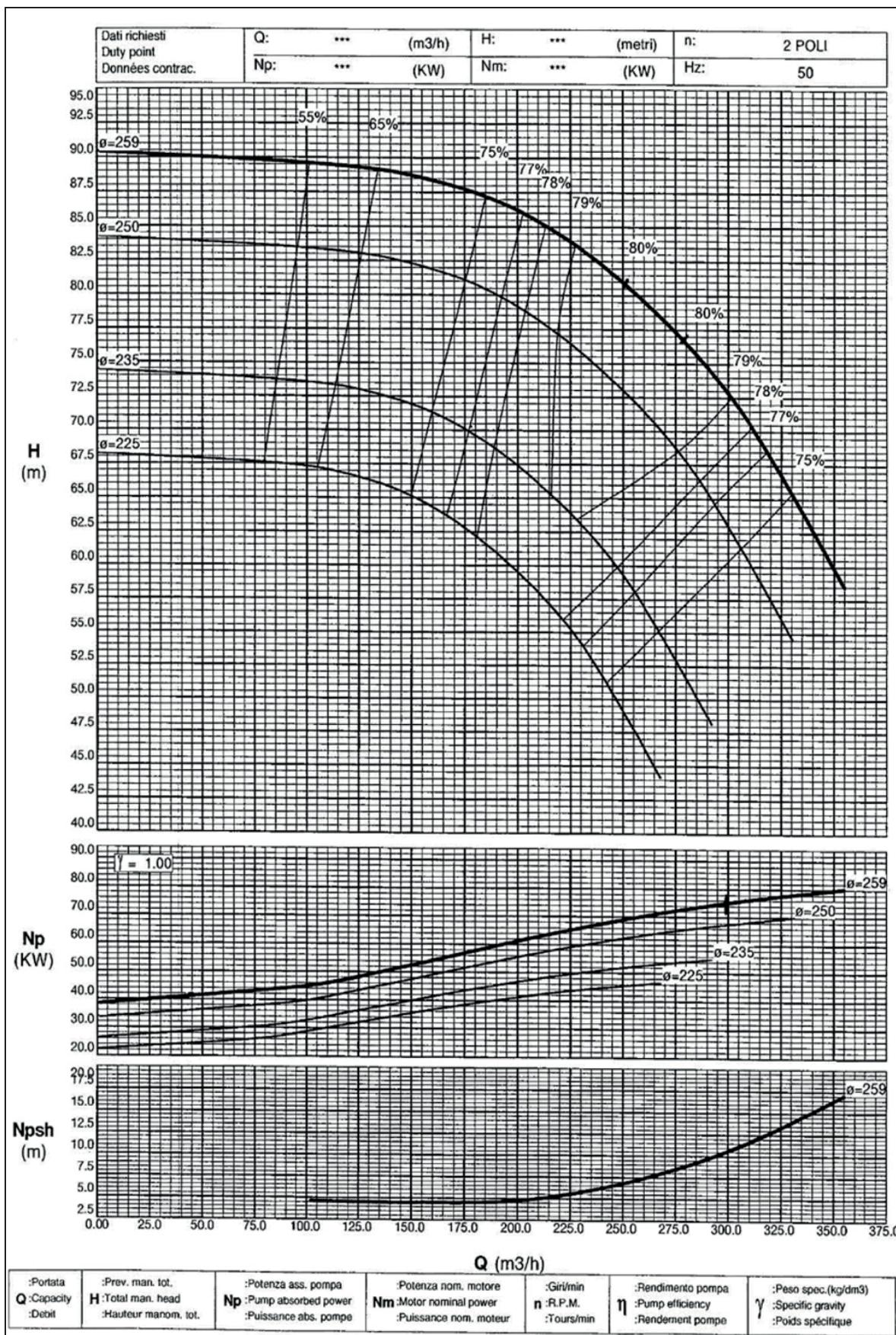


CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 80/250 A-B-C-D
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 80/250 A-B-C-D



CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 100/200 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 100/200 A-B-C



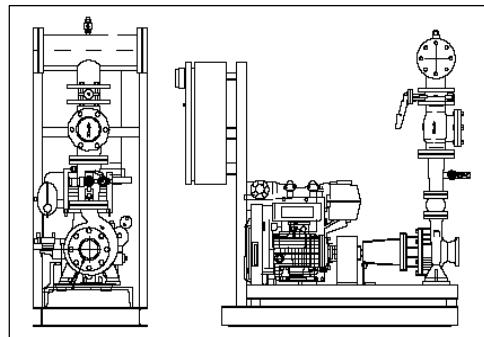
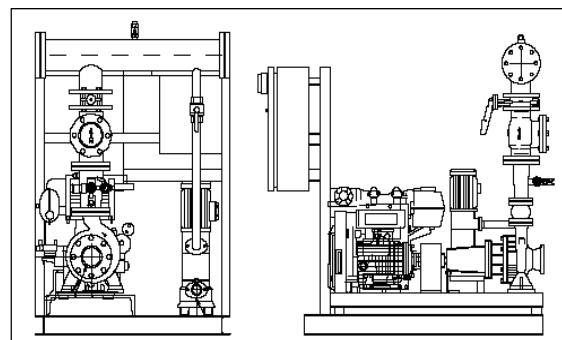
CARATTERISTICHE DI FUNZIONAMENTO A 50Hz IDRAULICA NRI2 100/250 A-B-C
CHARACTERISTICS OF OPERATION AT 50Hz HYDRAULIC NRI2 100/250 A-B-C


EN0E-EM. / EN01E-EM.+ MXV
Gruppi di pressione antincendio con motore diesel e pilota opzionale
Fire-fighting pressure unit with diesel motors and optional pilot
APPLICAZIONI

Alimentazioni d'impianti antincendio per sprinkler (EN12845)
 Alimentazioni d'impianti antincendio per idranti (UNI10779)

APPLICATION

Supply fire-fighting systems with sprinklers (EN12845)
 Supply fire-fighting systems with hydrants (UNI10779)


EN0E-EM

EN01E-EM.+ MXV
DATI TECNICI - TECHNICAL DATA

| Composizione gruppo di pressione <i>Pressure unit composition</i> | Motopompa <i>Motor pump</i> | Elettropompa principale <i>Main electric pump</i> | Elettropompa pilota <i>Pilot electric pump</i> |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------|
| | n.1 | - | n.1 |
| Avviamento: <i>Start-up:</i> | Motore diesel <i>Diesel motor</i> | - | Diretto <i>Direct</i> |
| Alimentazione: <i>Power supply:</i> | 1x230V | - | 3x400V |
| Frequenza: <i>Frequency:</i> | | 50Hz | |
| Grado di protezione: <i>Level of protection:</i> | IP 54 quadro elettrico - <i>IP 54 electric panel</i> IP 55 idraulica pompa - <i>IP 55 hydraulic pump</i> IP 44 elettropompa pilota (opzionale) - <i>IP 44 pilot electric pump (optional)</i> | | |
| Pressione max <i>Max pressure</i> | | 16 Bar | |
| Prestazioni idrauliche <i>Hydraulic performances</i> | Idoneo per alimentazione <i>Suitable for water supply</i> - Singola - <i>Single</i> - Singola superiore - Single superior - Doppia - <i>Double</i> | Qmax 330 m ³ /h | Hmax 10 bar |

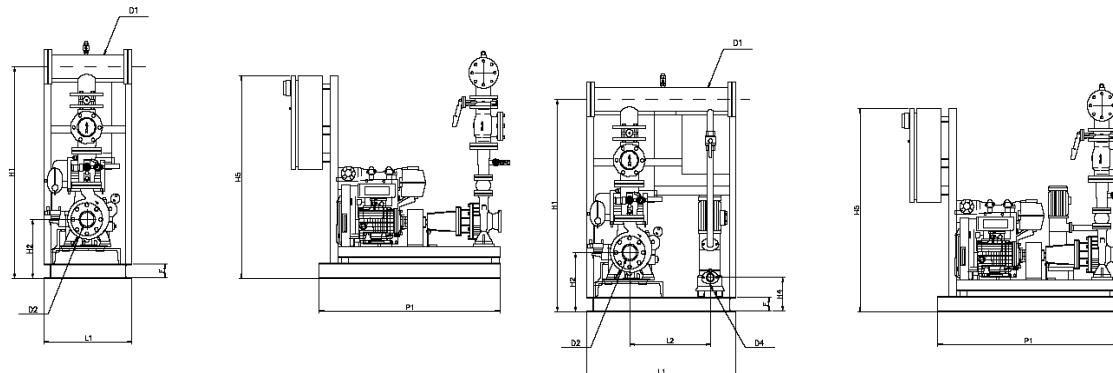
GRUPPI DI PRESSIONE ANTINCENDIO EN12845 - EN0E-EM. / EN01E-EM.+ MXV
FIRE-FIGHTING PRESSURE UNITS EN12845 - EN0E-EM. / EN01E-EM.+ MXV

TABELLE DELLE PRESTAZIONI IDRAULICHE⁽¹⁾
TABLE OF HYDRAULIC PERFORMANCES⁽¹⁾

| Mod | I/1' | 0 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | | | | | | |
|----------|---------------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | mc/h | 0 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | | | | | | |
| 32x160A | m.c.a. m.w.c. | 38,6 | 38 | 36,5 | 35 | 32,5 | 30 | 26,5 | | | | | | | | |
| 32x200C | | 48,7 | 47,5 | 46,5 | 44,5 | 42,5 | 39 | 35 | | | | | | | | |
| 32x200B | | 57 | 56 | 55 | 53,5 | 51,5 | 49,5 | 46 | 42 | 37 | | | | | | |
| 32x200A | | 62,2 | 61 | 60,5 | 59 | 57,5 | 55 | 52,5 | 49 | 45 | | | | | | |
| Mod | I/1' | 0 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | | |
| | mc/h | 0 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | | |
| 40x160A | m.c.a. m.w.c. | 38 | 37 | 36,5 | 35,5 | 34,5 | 33,5 | 32,5 | 31 | 29 | 26,5 | | | | | |
| 40x200C | | 46 | 43,5 | 43 | 42 | 40 | 38 | 36 | 33 | 29 | 24 | | | | | |
| 40x200B | | 54 | 52 | 51 | 50 | 49 | 47 | 45 | 43 | 40 | 37 | 33 | 28 | | | |
| 40x200A | | 59 | 57 | 56,5 | 55,5 | 54 | 53 | 51 | 49 | 47 | 44 | 41 | 37 | | | |
| 40x250C | | 74 | 73 | 72 | 71 | 70 | 67,5 | 65 | 62 | 57 | 51 | 44 | | | | |
| 40x250B | | 83,5 | 82,5 | 82 | 81 | 80 | 79 | 77 | 75 | 72 | 68 | 63 | 56 | | | |
| 40x250A | | 94 | 93 | 92,5 | 92 | 91 | 90 | 88 | 86 | 84 | 81 | 77 | 72 | 67 | | |
| | | I/1' | 0 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | | |
| Mod | mc/h | 0 | 24 | 27 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | | | |
| 50x160A | m.c.a. m.w.c. | 37,4 | 37 | 36,5 | 36 | 35 | 34 | 32,5 | 31 | 29 | 26 | | | | | |
| 50x200C | | 48,2 | 47 | 46,5 | 45 | 43 | 40 | 36 | 31,5 | | | | | | | |
| 50x200B | | 53,5 | 52,5 | 52 | 51,5 | 49,5 | 46,5 | 43,5 | 39,5 | 35 | | | | | | |
| 50x200A | | 58,2 | 57,5 | 57 | 56,5 | 55 | 53 | 50 | 46,5 | 43 | | | | | | |
| 50x250D | | 72,5 | 71,25 | 70 | 69,5 | 67,5 | 65 | 61,5 | 57,5 | 51 | | | | | | |
| 50x250C | | 79 | 78 | 77 | 76,5 | 75 | 72,5 | 69,5 | 66 | 61,5 | 55,5 | | | | | |
| 50x250B | | 89,5 | 88,75 | 88 | 87,5 | 86 | 84 | 82 | 78,5 | 74,5 | 69 | | | | | |
| 50x250A | | 96 | 95,25 | 94,5 | 94 | 93 | 91,5 | 89,5 | 86,5 | 83,5 | 80 | 75,5 | 70 | | | |
| Mod | I/1' | 0 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 | 2250 | |
| | mc/h | 0 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 108 | 120 | 135 | |
| 65x160B | m.c.a. m.w.c. | 34,2 | 33,8 | 33 | 32,5 | 32 | 31,5 | 30,5 | 29,5 | 28,5 | 27 | 25,5 | 22,5 | | | |
| 65x160A | | 41,5 | 40,8 | 40 | 39,5 | 39 | 38,5 | 38 | 37,5 | 36,5 | 35,5 | 34,5 | 32 | 29 | | |
| 65x200C | | 52,2 | 51,6 | 51 | 50,6 | 50,4 | 50,2 | 50,1 | 49,7 | 48,6 | 47,5 | 46 | 43 | 39 | | |
| 65x200B | | 58 | 57,75 | 57,5 | 57 | 56,6 | 56,5 | 56,3 | 56 | 55,5 | 54,5 | 53,5 | 50,5 | 47,5 | 42,5 | |
| 65x200A | | 63 | 62,5 | 62 | 61,7 | 61,5 | 61,3 | 61,1 | 61 | 60,5 | 60 | 59 | 57,5 | 55 | 50 | |
| 65x250C | | 73,2 | 72,6 | 72 | 71,5 | 71 | 70 | 68,5 | 67 | 65 | 63,3 | 61,2 | 57 | | | |
| 65x250B | | 83 | 82,75 | 82,5 | 82 | 81,5 | 80,5 | 79,5 | 78,5 | 77 | 75,5 | 74 | 70 | 65,5 | 59,5 | |
| 65x250A | | 93 | 92,75 | 92,5 | 92 | 91,5 | 91 | 90 | 89 | 88 | 87 | 86 | 82 | 78 | 72,5 | |
| Mod | I/1' | 0 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 | 4000 |
| | mc/h | 0 | 72 | 78 | 84 | 90 | 96 | 108 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 240 |
| 80x160A | m.c.a. m.w.c. | 39,2 | 38 | 37,8 | 37,6 | 37,2 | 36,8 | 36,5 | 35,5 | 34,5 | 33 | 31,5 | 29 | 27 | | |
| 80x200C | | 46,5 | 44,6 | 44,5 | 44 | 43,5 | 43 | 42 | 40,5 | 38,5 | 36,5 | 33,5 | 31 | | | |
| 80x200B | | 54 | 53 | 52,5 | 52 | 51,5 | 51 | 50,5 | 49,5 | 48 | 46 | 44 | 41,5 | 38,5 | | |
| 80x200A | | 59 | 58,5 | 58 | 57,5 | 57 | 56,5 | 56 | 55,5 | 54 | 52,5 | 50,5 | 48,5 | 46 | 43,5 | |
| 80x250D | | 70 | 69,5 | 69,0 | 68,5 | 68 | 67,5 | 66,5 | 65 | 62,5 | 60 | 56 | 51 | | | |
| 80x250C | | 76 | 76,1 | 75,6 | 75,1 | 74,6 | 74,5 | 73,5 | 72,5 | 70,5 | 68 | 65 | 61,5 | 57,5 | 53 | |
| 80x250B | | 85,5 | 85,5 | 85,0 | 84,5 | 84 | 83,5 | 83 | 82 | 81 | 78,5 | 76 | 73,5 | 70 | 66 | |
| 80x250A | | 92 | 92,0 | 91,5 | 91,0 | 90,5 | 90 | 89,5 | 89 | 87,5 | 86 | 84 | 81,5 | 78,5 | 75 | 66 |
| Mod | I/1' | 0 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 | 4000 | 4500 | 5000 | 5500 | | | |
| | mc/h | 0 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 240 | 270 | 300 | 330 | | | |
| 100X200D | m.c.a. m.w.c. | 39,5 | 37,5 | 36,5 | 35 | 33,5 | 31,5 | 29 | 27 | 20,5 | | | | | | |
| 100X200C | | 46,8 | 45 | 44,5 | 43,5 | 42,5 | 41 | 39,5 | 37,5 | 33 | 27 | | | | | |
| 100X200B | | 51,8 | 50,5 | 50 | 49,5 | 48,5 | 47,5 | 46,5 | 45 | 41,5 | 36,5 | 31 | | | | |
| 100X200A | | 56,5 | 55,5 | 55 | 54,5 | 54 | 53 | 52 | 51 | 48 | 43,5 | 38 | | | | |
| 100X250D | | 68 | 66,5 | 66 | 65 | 63,5 | 61,5 | 58,5 | 56 | 49,5 | | | | | | |
| 100X250C | | 74 | 73 | 72,5 | 72 | 71 | 69,5 | 68 | 66 | 61 | 53,5 | | | | | |
| 100X250B | | 84,2 | 83 | 82,8 | 82,5 | 82 | 81 | 79,5 | 78 | 74 | 70 | 63 | 55 | | | |
| 100X250A | | 90,5 | 89,5 | 89,3 | 89 | 88,2 | 87,5 | 86,5 | 85,5 | 82,5 | 78 | 73 | 65 | | | |

⁽¹⁾ prestazioni relative ad una pompa in funzione idonea per alimentazioni singole, doppia e superiore

⁽¹⁾ with a running pump suitable for single, double and superior water supplies

**MISURE D'INGOMBRO: EN0E-EM. / EN01E-EM.+ MXV
OVERALL DIMENSIONS: EN0E-EM. / EN01E-EM.+ MXV**


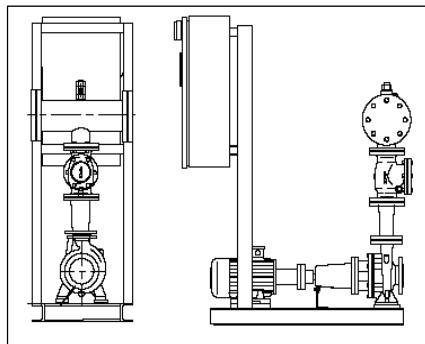
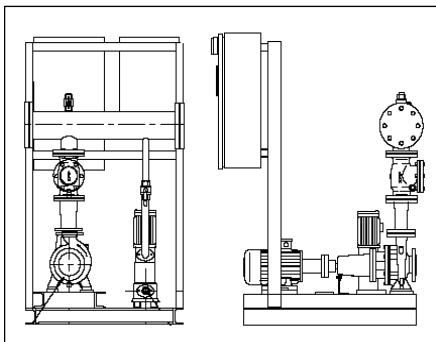
| Mod | Dimens. in mm | | | | | | | Mod con pompa pilota with pilot pump | Dimens. in mm | | | Rif/Ref Asam * | |
|-----------------|---------------|------|------|-----|------|-------|-------|--------------------------------------------|-----------------------------|------|-----|-------------------|-----|
| | L1 | P1 | H1 | H2 | H5 | D1 | D2 | F | L1 | H4 | D4 | L2 | |
| EN0E-EM32x160A | 700 | 1100 | 1050 | 330 | 1450 | 2 1/2 | 2" | 80 | EN01E-EM32x160A+MXV200/65 | 1000 | 175 | 1 1/4 | 440 |
| EN0E-EM32x200C | 700 | 1100 | 1075 | 335 | 1450 | 2 1/2 | 2" | 80 | EN01E-EM32x200C+MXV200/52 | 1000 | 175 | 1 1/4 | 440 |
| EN0E-EM32x200B | 700 | 1100 | 1075 | 335 | 1450 | 2 1/2 | 2" | 80 | EN01E-EM32x200B+MXV200/65 | 1000 | 175 | 1 1/4 | 440 |
| EN0E-EM32x200A | 700 | 1100 | 1075 | 335 | 1450 | 2 1/2 | 2" | 80 | EN01E-EM32x200A+MXV200/65 | 1000 | 175 | 1 1/4 | 440 |
| EN0E-EM40x160A | 700 | 1100 | 1050 | 330 | 1450 | 2 1/2 | 2 1/2 | 80 | EN01E-EM40x160A+MXV200/65 | 1000 | 175 | 1 1/4 | 440 |
| EN0E-EM40x200C | 700 | 1100 | 1075 | 335 | 1450 | 2 1/2 | 2 1/2 | 80 | EN01E-EM40x200C+MXV200/52 | 1000 | 175 | 1 1/4 | 440 |
| EN0E-EM40x200B | 700 | 1100 | 1075 | 335 | 1450 | 2 1/2 | 2 1/2 | 80 | EN01E-EM40x200B+MXV200/65 | 1000 | 175 | 1 1/4 | 440 |
| EN0E-EM40x200A | 700 | 1100 | 1075 | 335 | 1450 | 2 1/2 | 2 1/2 | 80 | EN01E-EM40x200A+MXV200/65 | 1000 | 175 | 1 1/4 | 440 |
| EN0E-EM40x250C | 700 | 1100 | 1140 | 355 | 1450 | 2 1/2 | 2 1/2 | 80 | EN01E-EM40x250C+MXV200/80 | 1000 | 175 | 1 1/4 | 440 |
| EN0E-EM40x250B | 700 | 1300 | 1140 | 355 | 1450 | 2 1/2 | 2 1/2 | 80 | EN01E-EM40x250B+MXV200/90 | 1000 | 175 | 1 1/4 | 440 |
| EN0E-EM40x250A | 800 | 1500 | 1170 | 385 | 1550 | 2 1/2 | 2 1/2 | 80 | EN01E-EM40x250A+MXV200/110 | 1100 | 175 | 1 1/4 | 440 |
| EN0E-EM50x160A | 700 | 1100 | 1125 | 335 | 1450 | 4" | 2 1/2 | 80 | EN01E-EM50x160A+MXV200/65 | 1100 | 175 | 1 1/4 | 490 |
| EN0E-EM50x200C | 700 | 1100 | 1145 | 335 | 1450 | 4" | 2 1/2 | 80 | EN01E-EM50x200C+MXV200/52 | 1100 | 175 | 1 1/4 | 490 |
| EN0E-EM50x200B | 700 | 1100 | 1145 | 335 | 1450 | 4" | 2 1/2 | 80 | EN01E-EM50x200B+MXV200/65 | 1100 | 175 | 1 1/4 | 490 |
| EN0E-EM50x200A | 700 | 1100 | 1185 | 350 | 1450 | 4" | 2 1/2 | 80 | EN01E-EM50x200A+MXV200/65 | 1100 | 175 | 1 1/4 | 490 |
| EN0E-EM50x250D | 700 | 1300 | 1190 | 355 | 1650 | 4" | 2 1/2 | 80 | EN01E-EM50x250D+MXV200/80 | 1100 | 175 | 1 1/4 | 490 |
| EN0E-EM50x250C | 800 | 1500 | 1220 | 385 | 1650 | 4" | 2 1/2 | 80 | EN01E-EM50x250C+MXV200/80 | 1100 | 175 | 1 1/4 | 490 |
| EN0E-EM50x250B | 800 | 1500 | 1220 | 385 | 1650 | 4" | 2 1/2 | 80 | EN01E-EM50x250B+MXV200/110 | 1100 | 175 | 1 1/4 | 490 |
| EN0E-EM50x250A | 900 | 1650 | 1255 | 425 | 1650 | 4" | 2 1/2 | 100 | EN01E-EM50x250A+MXV200/110 | 1100 | 195 | 1 1/4 | 490 |
| EN0E-EM65x180B | 700 | 1100 | 1380 | 335 | 1450 | 5" | 3" | 80 | EN01E-EM65x180B+MXV200/52 | 1100 | 175 | 1 1/4 | 490 |
| EN0E-EM65x180A | 700 | 1300 | 1375 | 350 | 1450 | 5" | 3" | 80 | EN01E-EM65x180A+MXV200/65 | 1100 | 175 | 1 1/4 | 490 |
| EN0E-EM65x200C | 800 | 1500 | 1435 | 385 | 1550 | 5" | 3" | 80 | EN01E-EM65x200C+MXV200/52 | 1100 | 175 | 1 1/4 | 490 |
| EN0E-EM65x200B | 800 | 1500 | 1435 | 385 | 1550 | 5" | 3" | 80 | EN01E-EM65x200B+MXV200/65 | 1100 | 195 | 1 1/4 | 490 |
| EN0E-EM65x200A | 900 | 1650 | 1475 | 425 | 1600 | 5" | 3" | 100 | EN01E-EM65x200A+MXV200/65 | 1100 | 195 | 1 1/4 | 490 |
| EN0E-EM65x250C | 900 | 1650 | 1500 | 425 | 1600 | 5" | 3" | 100 | EN01E-EM65x250C+MXV200/80 | 1100 | 195 | 1 1/4 | 490 |
| EN0E-EM65x250B | 900 | 1650 | 1500 | 425 | 1600 | 5" | 3" | 100 | EN01E-EM65x250B+MXV200/110 | 1100 | 195 | 1 1/4 | 490 |
| EN0E-EM65x250A | 900 | 1650 | 1500 | 425 | 1600 | 5" | 3" | 100 | EN01E-EM65x250A+MXV200/110 | 1100 | 195 | 1 1/4 | 490 |
| EN0E-EM80x160A | 800 | 1500 | 1535 | 385 | 1550 | 6" | 4" | 80 | EN01E-EM80x160A+MXV200/65 | 1100 | 175 | 1 1/4 | 490 |
| EN0E-EM80x200C | 900 | 1500 | 1555 | 405 | 1550 | 6" | 4" | 100 | EN01E-EM80x200C+MXV200/52 | 1100 | 195 | 1 1/4 | 490 |
| EN0E-EM80x200B | 900 | 1650 | 1560 | 425 | 1600 | 6" | 4" | 100 | EN01E-EM80x200B+MXV200/65 | 1100 | 195 | 1 1/4 | 490 |
| EN0E-EM80x200A | 900 | 1650 | 1560 | 425 | 1600 | 6" | 4" | 100 | EN01E-EM80x200A+MXV200/65 | 1100 | 195 | 1 1/4 | 490 |
| EN0E-EM80x250D | 900 | 1650 | 1590 | 425 | 1600 | 6" | 4" | 100 | EN01E-EM80x250D+MXV200/80 | 1100 | 195 | 1 1/4 | 490 |
| EN0E-EM80x250C | 900 | 1650 | 1590 | 425 | 1600 | 6" | 4" | 100 | EN01E-EM80x250C+MXV200/80 | 1100 | 195 | 1 1/4 | 490 |
| EN0E-EM80x250B | 900 | 2300 | 1610 | 445 | 1800 | 6" | 4" | 120 | EN01E-EM80x250B+MXV200/110 | 1200 | 215 | 1 1/4 | 490 |
| EN0E-EM80x250A | 1000 | 2300 | 1650 | 480 | 1800 | 6" | 4" | 160 | EN01E-EM80x250A+MXV200/110 | 1200 | 255 | 1 1/4 | 490 |
| EN0E-EM100x200D | 900 | 1500 | 1635 | 425 | 1550 | 8" | 5" | 120 | EN01E-EM100x200D+MXV200/52 | 1100 | 215 | 1 1/4 | 490 |
| EN0E-EM100x200C | 900 | 1650 | 1655 | 445 | 1550 | 8" | 5" | 120 | EN01E-EM100x200C+MXV200/52 | 1100 | 215 | 1 1/4 | 490 |
| EN0E-EM100x200B | 900 | 1650 | 1655 | 445 | 1600 | 8" | 5" | 120 | EN01E-EM100x200B+MXV200/65 | 1100 | 215 | 1 1/4 | 490 |
| EN0E-EM100x200A | 900 | 1650 | 1655 | 445 | 1600 | 8" | 5" | 120 | EN01E-EM100x200A+MXV200/65 | 1100 | 215 | 1 1/4 | 490 |
| EN0E-EM100x250D | 900 | 1650 | 1680 | 510 | 1600 | 8" | 5" | 120 | EN01E-EM100x250D+MXV200/80 | 1100 | 215 | 1 1/4 | 490 |
| EN0E-EM100x250C | 1000 | 2200 | 1720 | 510 | 1600 | 8" | 5" | 160 | EN01E-EM100x250C+MXV200/80 | 1200 | 255 | 1 1/4 | 490 |
| EN0E-EM100x250B | 1000 | 2300 | 1710 | 500 | 1800 | 8" | 5" | 160 | EN01E-EM100x250B+MXV200/110 | 1200 | 255 | 1 1/4 | 490 |
| EN0E-EM100x250A | 1000 | 2300 | 1710 | 500 | 1800 | 8" | 5" | 160 | EN01E-EM100x250A+MXV200/110 | 1200 | 255 | 1 1/4 | 490 |

Rif/Ref. Asam: v. accessori / see accessories

EN.10-NRB2 / EN.11-NRB2 + MXV
Gruppi di pressione antincendio con elettropompa e pilota opzionale
Fire-fighting pressure unit with electric pump and optional pilot
APPLICAZIONI

 Alimentazioni d'impianti antincendio per sprinkler (EN12845)
 Alimentazioni d'impianti antincendio per idranti (UNI10779)

APPLICATION

 Supply fire-fighting systems with sprinklers (EN12845)
 Supply fire-fighting systems with hydrants (UNI10779)

EN.10-NRB2

EN.11-NRB2 + MXV
DATI TECNICI

| Composizione gruppo di pressione <i>Pressure unit composition</i> | Motopompa <i>Motor pump</i> | Elettropompa principale <i>Main electric pump</i> | Elettropompa pilota <i>Pilot electric pump</i> |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| | - | n.1 | n.1 |
| Avviamento: <i>Start-up:</i> | - | $\leq 7,5\text{kw}$ Diretto - <i>Direct</i> $> 7,5\text{Kw}$ Stella/triangolo - <i>Star/delta</i> | Diretto - <i>Direct</i> |
| Alimentazione: <i>Power supply:</i> | - | 3x400V | 3x400V |
| Frequenza: <i>Frequency:</i> | | 50Hz | |
| Grado di protezione: <i>Level of protection:</i> | IP 54 quadro elettrico - <i>IP 54 electric panel</i> IP 55 pompa - <i>IP 55 pump</i> IP 44 elettropompa pilota (opzionale) - <i>IP 44 pilot electric pump (optional)</i> | | |
| Pressione max <i>Max pressure:</i> | 16 Bar | | |
| Prestazioni idrauliche <i>Hydraulic performances</i> | Idoneo per alimentazione Suitable for water supply | Qmax | Hmax |
| | - Singola - Single | 330 m ³ /h | 10 bar |
| | - Singola superiore - Single superior | | |
| | - Doppia - Double | | |

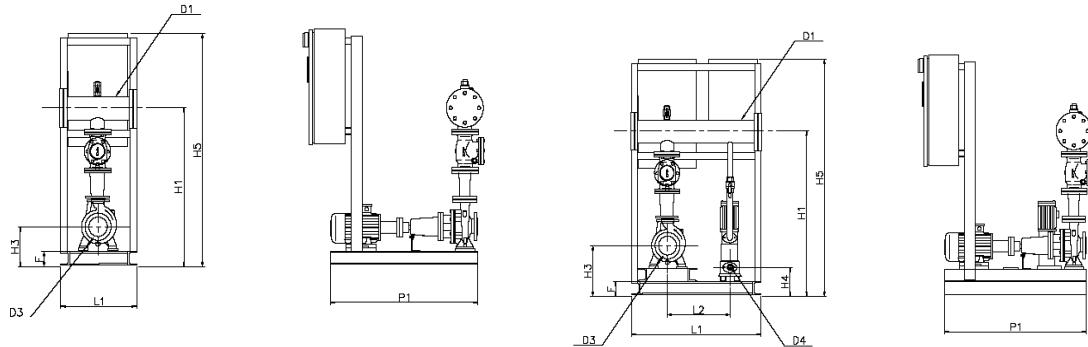
GRUPPI DI PRESSIONE ANTINCENDIO EN12845 - EN.10-NRB2 / EN.11-NRB2+MXV
FIRE-FIGHTING PRESSURE UNITS EN12845 - EN.10-NRB2 / EN.11-NRB2 + MXV

TABELLE DELLE PRESTAZIONI IDRAULICHE⁽¹⁾
TABLE OF HYDRAULIC PERFORMANCES⁽¹⁾

| Mod | I/1' | 0 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | | | | |
|----------|---------------|------|-------|------|------|------|------|------|------|------|------|------|------|------|
| | mc/h | 0 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | | | | |
| 32x160A | m.c.a. m.w.c. | 38,6 | 38 | 36,5 | 35 | 32,5 | 30 | 26,5 | | | | | | |
| 32x200C | | 48,7 | 47,5 | 46,5 | 44,5 | 42,5 | 39 | 35 | | | | | | |
| 32x200B | | 57 | 56 | 55 | 53,5 | 51,5 | 49,5 | 46 | 42 | 37 | | | | |
| 32x200A | | 62,2 | 61 | 60,5 | 59 | 57,5 | 55 | 52,5 | 49 | 45 | | | | |
| Mod | I/1' | 0 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 |
| | mc/h | 0 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 |
| 40x160A | 38 | 37 | 36,5 | 35,5 | 34,5 | 33,5 | 32,5 | 31 | 29 | 26,5 | | | | |
| 40x200C | m.c.a. m.w.c. | 46 | 43,5 | 43 | 42 | 40 | 38 | 36 | 33 | 29 | 24 | | | |
| 40x200B | | 54 | 52 | 51 | 50 | 49 | 47 | 45 | 43 | 40 | 37 | 33 | 28 | |
| 40x200A | | 59 | 57 | 56,5 | 55,5 | 54 | 53 | 51 | 49 | 47 | 44 | 41 | 37 | |
| 40x250C | | 74 | 73 | 72 | 71 | 70 | 67,5 | 65 | 62 | 57 | 51 | 44 | | |
| 40x250B | | 83,5 | 82,5 | 82 | 81 | 80 | 79 | 77 | 75 | 72 | 68 | 63 | 56 | |
| 40x250A | | 94 | 93 | 92,5 | 92 | 91 | 90 | 88 | 86 | 84 | 81 | 77 | 72 | 67 |
| Mod | I/1' | 0 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | |
| | mc/h | 0 | 24 | 27 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | |
| 50x160A | m.c.a. m.w.c. | 37,4 | 37 | 36,5 | 36 | 35 | 34 | 32,5 | 31 | 29 | 26 | | | |
| 50x200C | | 48,2 | 47 | 46,5 | 45 | 43 | 40 | 36 | 31,5 | | | | | |
| 50x200B | | 53,5 | 52,5 | 52 | 51,5 | 49,5 | 46,5 | 43,5 | 39,5 | 35 | | | | |
| 50x200A | | 58,2 | 57,5 | 57 | 56,5 | 55 | 53 | 50 | 46,5 | 43 | | | | |
| 50x250D | | 72,5 | 71,25 | 70 | 69,5 | 67,5 | 65 | 61,5 | 57,5 | 51 | | | | |
| 50x250C | | 79 | 78 | 77 | 76,5 | 75 | 72,5 | 69,5 | 66 | 61,5 | 55,5 | | | |
| 50x250B | | 89,5 | 88,75 | 88 | 87,5 | 86 | 84 | 82 | 78,5 | 74,5 | 69 | | | |
| 50x250A | | 96 | 95,25 | 94,5 | 94 | 93 | 91,5 | 89,5 | 86,5 | 83,5 | 80 | 75,5 | 70 | |
| Mod | I/1' | 0 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 |
| | mc/h | 0 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 108 | 120 |
| 65x160B | m.c.a. m.w.c. | 34,2 | 33,8 | 33 | 32,5 | 32 | 31,5 | 30,5 | 29,5 | 28,5 | 27 | 25,5 | 22,5 | |
| 65x160A | | 41,5 | 40,8 | 40 | 39,5 | 39 | 38,5 | 38 | 37,5 | 36,5 | 35,5 | 34,5 | 32 | 29 |
| 65x200C | | 52,2 | 51,6 | 51 | 50,6 | 50,4 | 50,2 | 50,1 | 49,7 | 48,6 | 47,5 | 46 | 43 | 39 |
| 65x200B | | 58 | 57,75 | 57,5 | 57 | 56,6 | 56,5 | 56,3 | 56 | 55,5 | 54,5 | 53,5 | 50,5 | 47,5 |
| 65x200A | | 63 | 62,5 | 62 | 61,7 | 61,5 | 61,3 | 61,1 | 61 | 60,5 | 60 | 59 | 57,5 | 55 |
| 65x250C | | 73,2 | 72,6 | 72 | 71,5 | 71 | 70 | 68,5 | 67 | 65 | 63,3 | 61,2 | 57 | |
| 65x250B | | 83 | 82,75 | 82,5 | 82 | 81,5 | 80,5 | 79,5 | 78,5 | 77 | 75,5 | 74 | 70 | 65,5 |
| 65x250A | | 93 | 92,75 | 92,5 | 92 | 91,5 | 91 | 90 | 89 | 88 | 87 | 86 | 82 | 78 |
| Mod | I/1' | 0 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 |
| | mc/h | 0 | 72 | 78 | 84 | 90 | 96 | 108 | 120 | 135 | 150 | 165 | 180 | 195 |
| 80x160A | m.c.a. m.w.c. | 39,2 | 38 | 37,8 | 37,6 | 37,2 | 36,8 | 36,5 | 35,5 | 34,5 | 33 | 31,5 | 29 | 27 |
| 80x200C | | 46,5 | 44,6 | 44,5 | 44 | 43,5 | 43 | 42 | 40,5 | 38,5 | 36,5 | 33,5 | 31 | |
| 80x200B | | 54 | 53 | 52,5 | 52 | 51,5 | 51 | 50,5 | 49,5 | 48 | 46 | 44 | 41,5 | 38,5 |
| 80x200A | | 59 | 58,5 | 58 | 57,5 | 57 | 56,5 | 56 | 55,5 | 54 | 52,5 | 50,5 | 48,5 | 46 |
| 80x250D | | 70 | 69,5 | 69,0 | 68,5 | 68 | 67,5 | 66,5 | 65 | 62,5 | 60 | 56 | 51 | |
| 80x250C | | 76 | 76,1 | 75,6 | 75,1 | 74,6 | 74,5 | 73,5 | 72,5 | 70,5 | 68 | 65 | 61,5 | 57,5 |
| 80x250B | | 85,5 | 85,5 | 85,0 | 84,5 | 84 | 83,5 | 83 | 82 | 81 | 78,5 | 76 | 73,5 | 70 |
| 80x250A | | 92 | 92,0 | 91,5 | 91,0 | 90,5 | 90 | 89,5 | 89 | 87,5 | 86 | 84 | 81,5 | 78,5 |
| Mod | I/1' | 0 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 | 4000 | 4500 | 5000 | 5500 | |
| | mc/h | 0 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 240 | 270 | 300 | 330 | |
| 100X200D | m.c.a. m.w.c. | 39,5 | 37,5 | 36,5 | 35 | 33,5 | 31,5 | 29 | 27 | 20,5 | | | | |
| 100X200C | | 46,8 | 45 | 44,5 | 43,5 | 42,5 | 41 | 39,5 | 37,5 | 33 | 27 | | | |
| 100X200B | | 51,8 | 50,5 | 50 | 49,5 | 48,5 | 47,5 | 46,5 | 45 | 41,5 | 36,5 | 31 | | |
| 100X200A | | 56,5 | 55,5 | 55 | 54,5 | 54 | 53 | 52 | 51 | 48 | 43,5 | 38 | | |
| 100X250D | | 68 | 66,5 | 66 | 65 | 63,5 | 61,5 | 58,5 | 56 | 49,5 | | | | |
| 100X250C | | 74 | 73 | 72,5 | 72 | 71 | 69,5 | 68 | 66 | 61 | 53,5 | | | |
| 100X250B | | 84,2 | 83 | 82,8 | 82,5 | 82 | 81 | 79,5 | 78 | 74 | 70 | 63 | 55 | |
| 100X250A | | 90,5 | 89,5 | 89,3 | 89 | 88,2 | 87,5 | 86,5 | 85,5 | 82,5 | 78 | 73 | 65 | |

⁽¹⁾ prestazioni relative ad una pompa in funzione idonea per alimentazione; singole, doppia e superiore

⁽¹⁾ with a running pump suitable for single, double and superior water supplies

**MISURE D'INGOMBRO: EN.10-NRB2 / EN.11-NRB2 + MXV
 OVERALL DIMENSIONS: EN.10-NRB2 / EN.11-NRB2 + MXV**


| Mod | Dimens. in mm | | | | | | | Modello con pompa pilota Model with pilot pump | Dimens. in mm | | | | Rif / Ref Asam | | |
|---------------------|---------------|------|------|-----|------|-------------------------------|-------------------------------|---------------------------------------------------|--------------------------------|------|-----|------|-------------------------------|-----|---|
| | L1 | P1 | H1 | H3 | H5 | D1 | D3 | F | L1 | H4 | H5 | D4 | L2 | | |
| END10-NRB2 32/160A | 510 | 1100 | 782 | 212 | 1180 | 2 ¹ / ₂ | 2 ¹ / ₂ | 80 | END 11-NRB2 32/160A+MXV200/52 | 940 | 175 | 1260 | 1 ¹ / ₄ | 440 | a |
| END10-NRB2 32/200C | 510 | 1100 | 830 | 240 | 1180 | 2 ¹ / ₂ | 2 ¹ / ₂ | 80 | END 11-NRB2 32/200C+MXV200/52 | 940 | 175 | 1260 | 1 ¹ / ₄ | 440 | a |
| END10-NRB2 32/200B | 510 | 1100 | 830 | 240 | 1180 | 2 ¹ / ₂ | 2 ¹ / ₂ | 80 | END 11-NRB2 32/200B+MXV200/65 | 940 | 175 | 1260 | 1 ¹ / ₄ | 440 | a |
| END10-NRB2 32/200A | 510 | 1100 | 830 | 240 | 1180 | 2 ¹ / ₂ | 2 ¹ / ₂ | 80 | END 11-NRB2 32/200A+MXV200/65 | 940 | 175 | 1260 | 1 ¹ / ₄ | 440 | a |
| END10-NRB2 40/160A | 510 | 1100 | 792 | 212 | 1180 | 2 ¹ / ₂ | 2 ¹ / ₂ | 80 | END 11-NRB2 40/160A+MXV200/52 | 940 | 175 | 1260 | 1 ¹ / ₄ | 440 | c |
| END10-NRB2 40/200C | 510 | 1100 | 840 | 240 | 1180 | 2 ¹ / ₂ | 2 ¹ / ₂ | 80 | END 11-NRB2 40/200C+MXV200/52 | 940 | 175 | 1260 | 1 ¹ / ₄ | 440 | c |
| END10-NRB2 40/200B | 510 | 1100 | 840 | 240 | 1180 | 2 ¹ / ₂ | 2 ¹ / ₂ | 80 | END 11-NRB2 40/200B+MXV200/65 | 940 | 175 | 1260 | 1 ¹ / ₄ | 440 | c |
| ENY10-NRB2 40/200A | 510 | 1100 | 840 | 240 | 1370 | 2 ¹ / ₂ | 2 ¹ / ₂ | 80 | ENY11-NRB2 40/200A+MXV200/65 | 940 | 175 | 1450 | 1 ¹ / ₄ | 440 | c |
| ENY10-NRB2 40/250C | 510 | 1100 | 905 | 260 | 1370 | 2 ¹ / ₂ | 2 ¹ / ₂ | 80 | ENY11-NRB2 40/250C+MXV200/80 | 940 | 175 | 1450 | 1 ¹ / ₄ | 440 | c |
| ENY10-NRB2 40/250B | 510 | 1100 | 905 | 340 | 1370 | 2 ¹ / ₂ | 2 ¹ / ₂ | 80 | ENY11-NRB2 40/250B+MXV200/90 | 940 | 175 | 1450 | 1 ¹ / ₄ | 440 | c |
| ENY10-NRB2 40/250A | 510 | 1300 | 905 | 340 | 1370 | 2 ¹ / ₂ | 2 ¹ / ₂ | 80 | ENY11-NRB2 40/250A+MXV200/110 | 940 | 175 | 1450 | 1 ¹ / ₄ | 440 | c |
| END10-NRB2 50/160A | 510 | 1100 | 900 | 320 | 1200 | 4 ¹ / ₂ | 2 ¹ / ₂ | 80 | END 11-NRB2 50/160A+MXV200/52 | 1000 | 175 | 1280 | 1 ¹ / ₄ | 490 | e |
| END10-NRB2 50/200C | 510 | 1100 | 920 | 320 | 1200 | 4 ¹ / ₂ | 2 ¹ / ₂ | 80 | END 11-NRB2 50/200C+MXV200/52 | 1000 | 175 | 1280 | 1 ¹ / ₄ | 490 | e |
| ENY10-NRB2 50/200B | 510 | 1100 | 920 | 320 | 1370 | 4 ¹ / ₂ | 2 ¹ / ₂ | 80 | ENY11-NRB2 50/200B+MXV200/65 | 1000 | 175 | 1450 | 1 ¹ / ₄ | 490 | e |
| ENY10-NRB2 50/200A | 510 | 1100 | 920 | 320 | 1370 | 4 ¹ / ₂ | 2 ¹ / ₂ | 80 | ENY11-NRB2 50/200A+MXV200/65 | 1000 | 175 | 1450 | 1 ¹ / ₄ | 490 | e |
| ENY10-NRB2 50/250D | 510 | 1100 | 965 | 340 | 1370 | 4 ¹ / ₂ | 2 ¹ / ₂ | 80 | ENY11-NRB2 50/250D+MXV200/80 | 1000 | 175 | 1450 | 1 ¹ / ₄ | 490 | e |
| ENY10-NRB2 50/250C | 510 | 1300 | 965 | 340 | 1370 | 4 ¹ / ₂ | 2 ¹ / ₂ | 80 | ENY11-NRB2 50/250C+MXV200/90 | 1000 | 175 | 1450 | 1 ¹ / ₄ | 490 | e |
| ENY10-NRB2 50/250B | 510 | 1300 | 965 | 340 | 1370 | 4 ¹ / ₂ | 2 ¹ / ₂ | 80 | ENY11-NRB2 50/250B+MXV200/110 | 1000 | 175 | 1450 | 1 ¹ / ₄ | 490 | e |
| ENY10-NRB2 50/250A | 540 | 1400 | 1005 | 400 | 1370 | 4 ¹ / ₂ | 2 ¹ / ₂ | 80 | ENY11-NRB2 50/250A+MXV200/110 | 1000 | 175 | 1470 | 1 ¹ / ₄ | 490 | e |
| ENY10-NRB2 65/160B | 510 | 1100 | 1165 | 320 | 1370 | 5 ¹ / ₂ | 3 ¹ / ₂ | 80 | ENY11-NRB2 65/160B+MXV200/52 | 1000 | 175 | 1450 | 1 ¹ / ₄ | 490 | g |
| ENY10-NRB2 65/160A | 510 | 1100 | 1165 | 320 | 1370 | 5 ¹ / ₂ | 3 ¹ / ₂ | 80 | ENY11-NRB2 65/160A+MXV200/52 | 1000 | 175 | 1450 | 1 ¹ / ₄ | 490 | g |
| ENY10-NRB2 65/200C | 510 | 1300 | 1210 | 340 | 1370 | 5 ¹ / ₂ | 3 ¹ / ₂ | 80 | ENY11-NRB2 65/200C+MXV200/52 | 1000 | 175 | 1450 | 1 ¹ / ₄ | 490 | g |
| ENY10-NRB2 65/200B | 510 | 1300 | 1210 | 340 | 1370 | 5 ¹ / ₂ | 3 ¹ / ₂ | 80 | ENY11-NRB2 65/200B+MXV200/65 | 1000 | 175 | 1450 | 1 ¹ / ₄ | 490 | g |
| ENY10-NRB2 65/200A | 540 | 1400 | 1250 | 400 | 1510 | 5 ¹ / ₂ | 3 ¹ / ₂ | 100 | ENY11-NRB2 65/200A+MXV200/65 | 1000 | 195 | 1610 | 1 ¹ / ₄ | 490 | g |
| ENY10-NRB2 65/250C | 540 | 1400 | 1275 | 400 | 1510 | 5 ¹ / ₂ | 3 ¹ / ₂ | 100 | ENY11-NRB2 65/250C+MXV200/80 | 1000 | 195 | 1610 | 1 ¹ / ₄ | 490 | g |
| ENY10-NRB2 65/250B | 540 | 1400 | 1275 | 400 | 1600 | 5 ¹ / ₂ | 3 ¹ / ₂ | 100 | ENY11-NRB2 65/250B+MXV200/90 | 1000 | 195 | 1700 | 1 ¹ / ₄ | 490 | g |
| ENY10-NRB2 65/250A | 540 | 1400 | 1300 | 425 | 1600 | 5 ¹ / ₂ | 3 ¹ / ₂ | 100 | ENY11-NRB2 65/250A+MXV200/110 | 1000 | 195 | 1700 | 1 ¹ / ₄ | 490 | g |
| ENY10-NRB2 80/160A | 510 | 1300 | 1380 | 340 | 1370 | 6 ¹ / ₂ | 4 ¹ / ₂ | 80 | ENY11-NRB2 80/160A+MXV200/52 | 1100 | 195 | 1450 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 80/200C | 510 | 1300 | 1405 | 340 | 1370 | 6 ¹ / ₂ | 4 ¹ / ₂ | 80 | ENY11-NRB2 80/200C+MXV200/52 | 1100 | 195 | 1450 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 80/200B | 540 | 1400 | 1445 | 400 | 1510 | 6 ¹ / ₂ | 4 ¹ / ₂ | 100 | ENY11-NRB2 80/200B+MXV200/65 | 1100 | 195 | 1610 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 80/200A | 540 | 1400 | 1445 | 400 | 1510 | 6 ¹ / ₂ | 4 ¹ / ₂ | 100 | ENY11-NRB2 80/200A+MXV200/65 | 1100 | 195 | 1610 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 80/250D | 540 | 1400 | 1475 | 400 | 1510 | 6 ¹ / ₂ | 4 ¹ / ₂ | 100 | ENY11-NRB2 80/250D+MXV200/80 | 1100 | 195 | 1610 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 80/250C | 540 | 1400 | 1500 | 425 | 1600 | 6 ¹ / ₂ | 4 ¹ / ₂ | 100 | ENY11-NRB2 80/250C+MXV200/80 | 1100 | 195 | 1700 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 80/250B | 660 | 1650 | 1525 | 450 | 1700 | 6 ¹ / ₂ | 4 ¹ / ₂ | 100 | ENY11-NRB2 80/250B+MXV200/90 | 1100 | 195 | 1800 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 80/250A | 660 | 1650 | 1525 | 450 | 1700 | 6 ¹ / ₂ | 4 ¹ / ₂ | 100 | ENY11-NRB2 80/250A+MXV200/100 | 1100 | 195 | 1800 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 100/200D | 510 | 1300 | 1620 | 360 | 1370 | 8 ¹ / ₂ | 5 ¹ / ₂ | 80 | ENY11-NRB2 100/200D+MXV200/52 | 1100 | 195 | 1450 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 100/200C | 540 | 1400 | 1640 | 400 | 1580 | 8 ¹ / ₂ | 5 ¹ / ₂ | 100 | ENY11-NRB2 100/200C+MXV200/52 | 1100 | 195 | 1680 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 100/200B | 540 | 1400 | 1640 | 400 | 1580 | 8 ¹ / ₂ | 5 ¹ / ₂ | 100 | ENY11-NRB2 100/200B+MXV200/65 | 1100 | 195 | 1680 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 100/200A | 540 | 1400 | 1665 | 425 | 1580 | 8 ¹ / ₂ | 5 ¹ / ₂ | 100 | ENY11-NRB2 100/200A+MXV200/65 | 1100 | 195 | 1680 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 100/250D | 540 | 1400 | 1665 | 425 | 1580 | 8 ¹ / ₂ | 5 ¹ / ₂ | 100 | ENY11-NRB2 100/250D+MXV200/80 | 1100 | 195 | 1680 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 100/250C | 660 | 1650 | 1690 | 450 | 1700 | 8 ¹ / ₂ | 5 ¹ / ₂ | 100 | ENY11-NRB2 100/250C+MXV200/90 | 1100 | 195 | 1800 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 100/250B | 660 | 1650 | 1715 | 475 | 1700 | 8 ¹ / ₂ | 5 ¹ / ₂ | 100 | ENY11-NRB2 100/250B+MXV200/110 | 1100 | 195 | 1800 | 1 ¹ / ₄ | 490 | i |
| ENY10-NRB2 100/250A | 660 | 1650 | 1715 | 475 | 1700 | 8 ¹ / ₂ | 5 ¹ / ₂ | 100 | ENY11-NRB2 100/250A+MXV200/110 | 1100 | 195 | 1800 | 1 ¹ / ₄ | 490 | i |

Rif/Ref. Asam: v. accessori / see accessories

EN.10E-NRB2+EM / EN.11E-NRB2+EM+MXV

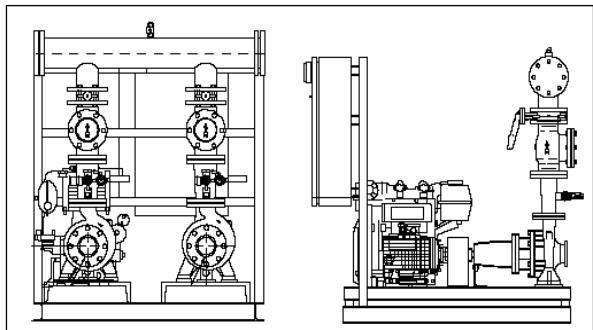
Gruppi di pressione con elettropompa principale, motore diesel e pilota opzionale
Fire-fighting pressure unit with electric pump, diesel motor and optional pilot

APPLICAZIONI

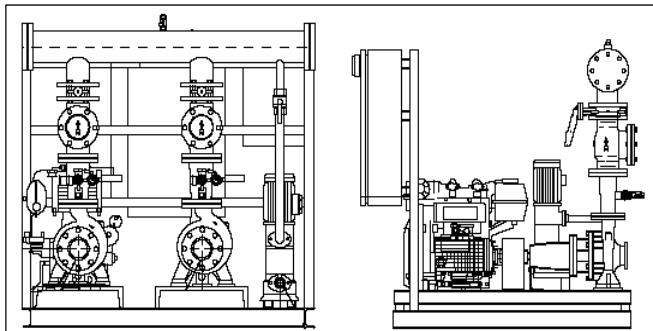
Alimentazioni d'impianti antincendio per sprinkler (EN12845)
Alimentazioni d'impianti antincendio per idranti (UNI10779)

APPLICATION

Supply fire-fighting systems with sprinklers (EN12845)
Supply fire-fighting systems with hydrants (UNI10779)



EN.10E-NRB2+EM



EN.11E-NRB2+EM+MXV

DATI TECNICI / TECHNICAL DATA

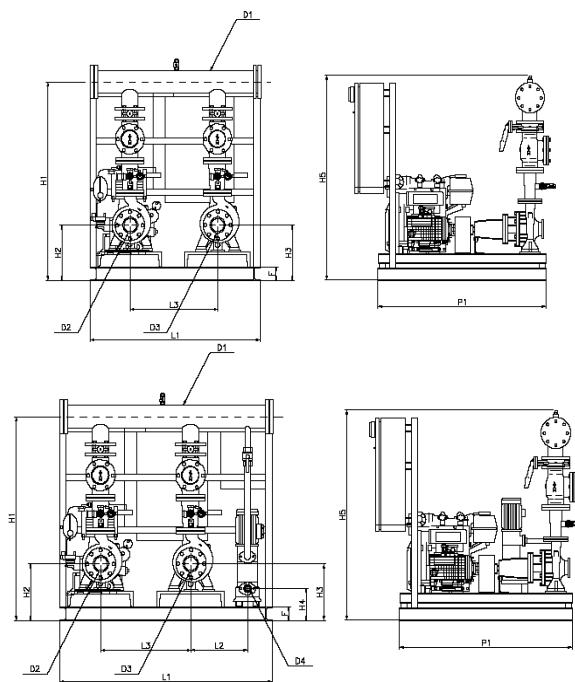
| Composizione gruppo di pressione <i>Pressure unit composition</i> | Motopompa <i>Motor pump</i> | Elettropompa principale <i>Main electric pump</i> | Elettropompa pilota <i>Pilot electric pump</i> |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------|
| | n.1 | n.1 | n.1 |
| Avviamento: <i>Start-up:</i> | Motore diesel <i>Diesel motor</i> | ≤7,5kw Diretto - <i>Direct</i> ≥ 7,5Kw Stella/triangolo - <i>Star/delta</i> | Diretto <i>Direct</i> |
| Alimentazione: <i>Power supply:</i> | 1x230V | 3x400V | 3x400V |
| Frequenza: <i>Frequency:</i> | 50Hz | | |
| Grado di protezione: <i>Level of protection:</i> | IP 54 quadro elettrico - <i>IP 54 electric panel</i> IP 55 pompa - <i>IP 55 pump</i> IP 44 elettropompa pilota (opzionale) - <i>IP 44 pilot electric pump (optional)</i> | | |
| Pressione max <i>Max pressure</i> | 16 Bar | | |
| Prestazioni idrauliche <i>Hydraulic performances</i> | Idoneo per alimentazione <i>Suitable for water supply</i> | Qmax | Hmax |
| | - Singola - Single | 330 m ³ /h | 10 bar |
| | - Singola superiore - Single superior | | |
| | - Doppia - Double | | |

**GRUPPI DI PRESSIONE ANTINCENDIO EN12845 - EN.10E-NRB2+EM /
EN.11E-NRB2+EM+MXV**
**FIRE-FIGHTING PRESSURE UNITS EN12845 - EN.10E-NRB2+EM /
EN.11E-NRB2+EM+MXV**

TABELLE DELLE PRESTAZIONI IDRAULICHE⁽¹⁾
TABLE OF HYDRAULIC PERFORMANCES⁽¹⁾

| Mod | I/1' | 0 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | | | | | | |
|----------|---------------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | mc/h | 0 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | | | | | | |
| 32x160A | m.c.a. m.w.c. | 38,6 | 38 | 36,5 | 35 | 32,5 | 30 | 26,5 | | | | | | | | |
| 32x200C | | 48,7 | 47,5 | 46,5 | 44,5 | 42,5 | 39 | 35 | | | | | | | | |
| 32x200B | | 57 | 56 | 55 | 53,5 | 51,5 | 49,5 | 46 | 42 | 37 | | | | | | |
| 32x200A | | 62,2 | 61 | 60,5 | 59 | 57,5 | 55 | 52,5 | 49 | 45 | | | | | | |
| Mod | I/1' | 0 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | | |
| | mc/h | 0 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | | |
| 40x160A | m.c.a. m.w.c. | 38 | 37 | 36,5 | 35,5 | 34,5 | 33,5 | 32,5 | 31 | 29 | 26,5 | | | | | |
| 40x200C | | 46 | 43,5 | 43 | 42 | 40 | 38 | 36 | 33 | 29 | 24 | | | | | |
| 40x200B | | 54 | 52 | 51 | 50 | 49 | 47 | 45 | 43 | 40 | 37 | 33 | 28 | | | |
| 40x200A | | 59 | 57 | 56,5 | 55,5 | 54 | 53 | 51 | 49 | 47 | 44 | 41 | 37 | | | |
| 40x250C | | 74 | 73 | 72 | 71 | 70 | 67,5 | 65 | 62 | 57 | 51 | 44 | | | | |
| 40x250B | | 83,5 | 82,5 | 82 | 81 | 80 | 79 | 77 | 75 | 72 | 68 | 63 | 56 | | | |
| 40x250A | | 94 | 93 | 92,5 | 92 | 91 | 90 | 88 | 86 | 84 | 81 | 77 | 72 | 67 | | |
| Mod | I/1' | 0 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | | | |
| | mc/h | 0 | 24 | 27 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | | | |
| 50x160A | m.c.a. m.w.c. | 37,4 | 37 | 36,5 | 36 | 35 | 34 | 32,5 | 31 | 29 | 26 | | | | | |
| 50x200C | | 48,2 | 47 | 46,5 | 45 | 43 | 40 | 36 | 31,5 | | | | | | | |
| 50x200B | | 53,5 | 52,5 | 52 | 51,5 | 49,5 | 46,5 | 43,5 | 39,5 | 35 | | | | | | |
| 50x200A | | 58,2 | 57,5 | 57 | 56,5 | 55 | 53 | 50 | 46,5 | 43 | | | | | | |
| 50x250D | | 72,5 | 71,25 | 70 | 69,5 | 67,5 | 65 | 61,5 | 57,5 | 51 | | | | | | |
| 50x250C | | 79 | 78 | 77 | 76,5 | 75 | 72,5 | 69,5 | 66 | 61,5 | 55,5 | | | | | |
| 50x250B | | 89,5 | 88,75 | 88 | 87,5 | 86 | 84 | 82 | 78,5 | 74,5 | 69 | | | | | |
| 50x250A | | 96 | 95,25 | 94,5 | 94 | 93 | 91,5 | 89,5 | 86,5 | 83,5 | 80 | 75,5 | 70 | | | |
| Mod | I/1' | 0 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 | 2250 | |
| | mc/h | 0 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 108 | 120 | 135 | |
| 65x160B | m.c.a. m.w.c. | 34,2 | 33,8 | 33 | 32,5 | 32 | 31,5 | 30,5 | 29,5 | 28,5 | 27 | 25,5 | 22,5 | | | |
| 65x160A | | 41,5 | 40,8 | 40 | 39,5 | 39 | 38,5 | 38 | 37,5 | 36,5 | 35,5 | 34,5 | 32 | 29 | | |
| 65x200C | | 52,2 | 51,6 | 51 | 50,6 | 50,4 | 50,2 | 50,1 | 49,7 | 48,6 | 47,5 | 46 | 43 | 39 | | |
| 65x200B | | 58 | 57,75 | 57,5 | 57 | 56,6 | 56,5 | 56,3 | 56 | 55,5 | 54,5 | 53,5 | 50,5 | 47,5 | 42,5 | |
| 65x200A | | 63 | 62,5 | 62 | 61,7 | 61,5 | 61,3 | 61,1 | 61 | 60,5 | 60 | 59 | 57,5 | 55 | 50 | |
| 65x250C | | 73,2 | 72,6 | 72 | 71,5 | 71 | 70 | 68,5 | 67 | 65 | 63,3 | 61,2 | 57 | | | |
| 65x250B | | 83 | 82,75 | 82,5 | 82 | 81,5 | 80,5 | 79,5 | 78,5 | 77 | 75,5 | 74 | 70 | 65,5 | 59,5 | |
| 65x250A | | 93 | 92,75 | 92,5 | 92 | 91,5 | 91 | 90 | 89 | 88 | 87 | 86 | 82 | 78 | 72,5 | |
| Mod | I/1' | 0 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 | 4000 |
| | mc/h | 0 | 72 | 78 | 84 | 90 | 96 | 108 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 240 |
| 80x160A | m.c.a. m.w.c. | 39,2 | 38 | 37,8 | 37,6 | 37,2 | 36,8 | 36,5 | 35,5 | 34,5 | 33 | 31,5 | 29 | 27 | | |
| 80x200C | | 46,5 | 44,6 | 44,5 | 44 | 43,5 | 43 | 42 | 40,5 | 38,5 | 36,5 | 33,5 | 31 | | | |
| 80x200B | | 54 | 53 | 52,5 | 52 | 51,5 | 51 | 50,5 | 49,5 | 48 | 46 | 44 | 41,5 | 38,5 | | |
| 80x200A | | 59 | 58,5 | 58 | 57,5 | 57 | 56,5 | 56 | 55,5 | 54 | 52,5 | 50,5 | 48,5 | 46 | 43,5 | |
| 80x250D | | 70 | 69,5 | 69,0 | 68,5 | 68 | 67,5 | 66,5 | 65 | 62,5 | 60 | 56 | 51 | | | |
| 80x250C | | 76 | 76,1 | 75,6 | 75,1 | 74,6 | 74,5 | 73,5 | 72,5 | 70,5 | 68 | 65 | 61,5 | 57,5 | 53 | |
| 80x250B | | 85,5 | 85,5 | 85,0 | 84,5 | 84 | 83,5 | 83 | 82 | 81 | 78,5 | 76 | 73,5 | 70 | 66 | |
| 80x250A | | 92 | 92,0 | 91,5 | 91,0 | 90,5 | 90 | 89,5 | 89 | 87,5 | 86 | 84 | 81,5 | 78,5 | 75 | 66 |
| Mod | I/1' | 0 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 | 4000 | 4500 | 5000 | 5500 | | | |
| | mc/h | 0 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 240 | 270 | 300 | 330 | | | |
| 100X200D | m.c.a. m.w.c. | 39,5 | 37,5 | 36,5 | 35 | 33,5 | 31,5 | 29 | 27 | 20,5 | | | | | | |
| 100X200C | | 46,8 | 45 | 44,5 | 43,5 | 42,5 | 41 | 39,5 | 37,5 | 33 | 27 | | | | | |
| 100X200B | | 51,8 | 50,5 | 50 | 49,5 | 48,5 | 47,5 | 46,5 | 45 | 41,5 | 36,5 | 31 | | | | |
| 100X200A | | 56,5 | 55,5 | 55 | 54,5 | 54 | 53 | 52 | 51 | 48 | 43,5 | 38 | | | | |
| 100X250D | | 68 | 66,5 | 66 | 65 | 63,5 | 61,5 | 58,5 | 56 | 49,5 | | | | | | |
| 100X250C | | 74 | 73 | 72,5 | 72 | 71 | 69,5 | 68 | 66 | 61 | 53,5 | | | | | |
| 100X250B | | 84,2 | 83 | 82,8 | 82,5 | 82 | 81 | 79,5 | 78 | 74 | 70 | 63 | 55 | | | |
| 100X250A | | 90,5 | 89,5 | 89,3 | 89 | 88,2 | 87,5 | 86,5 | 85,5 | 82,5 | 78 | 73 | 65 | | | |

⁽¹⁾ prestazioni relative ad una pompa in funzione idonea per alimentazione; singole, doppia e superiore
⁽¹⁾ with a running pump suitable for single, double and superior water supply

**MISURE D'INGOMBRO: EN.10E-NRB2+EM / EN.11E-NRB2+EM+MXV
OVERALL DIMENSIONS: EN.10E-NRB2+EM / EN.11E-NRB2+EM+MXV**


| Mod | Dimens. in mm | | | | | | | | | | Modello con pompa pilota Model with pilot pump | Dimens. in mm | | | | Rif/Ref Asam | |
|------------------------|---------------|------|------|-----|-----|------|-------|-------|-------|-----|---------------------------------------------------|-----------------------------------|------|-----|-------|-----------------|---|
| | L1 | P1 | H1 | H2 | H3 | H5 | D1 | D2 | D3 | L3 | F | L1 | H4 | D4 | L2 | | |
| END10E-NRB2+EM32x160A | 1350 | 1100 | 1050 | 330 | 212 | 1450 | 2 1/2 | 2" | 2" | 550 | 80 | END11E-NRB2+EM32x160A+MXV200/65 | 1570 | 175 | 1 1/4 | 440 | a |
| END10E-NRB2+EM32x200C | 1350 | 1100 | 1075 | 335 | 240 | 1450 | 2 1/2 | 2" | 2" | 550 | 80 | END11E-NRB2+EM32x200C+MXV200/52 | 1570 | 175 | 1 1/4 | 440 | a |
| END10E-NRB2+EM32x200B | 1350 | 1100 | 1075 | 335 | 240 | 1450 | 2 1/2 | 2" | 2" | 550 | 80 | END11E-NRB2+EM32x200B+MXV200/65 | 1570 | 175 | 1 1/4 | 440 | a |
| END10E-NRB2+EM32x200A | 1350 | 1100 | 1075 | 335 | 240 | 1450 | 2 1/2 | 2" | 2" | 550 | 80 | END11E-NRB2+EM32x200A+MXV200/65 | 1570 | 175 | 1 1/4 | 440 | a |
| END10E-NRB2+EM40x160A | 1350 | 1100 | 1050 | 330 | 212 | 1450 | 2 1/2 | 2 1/2 | 2 1/2 | 550 | 80 | END11E-NRB2+EM40x160A+MXV200/65 | 1570 | 175 | 1 1/4 | 440 | c |
| END10E-NRB2+EM40x200C | 1350 | 1100 | 1075 | 335 | 240 | 1450 | 2 1/2 | 2 1/2 | 2 1/2 | 550 | 80 | END11E-NRB2+EM40x200C+MXV200/52 | 1570 | 175 | 1 1/4 | 440 | c |
| END10E-NRB2+EM40x200B | 1350 | 1100 | 1075 | 335 | 240 | 1450 | 2 1/2 | 2 1/2 | 2 1/2 | 550 | 80 | END11E-NRB2+EM40x200B+MXV200/65 | 1570 | 175 | 1 1/4 | 440 | c |
| ENY10E-NRB2+EM40x200A | 1350 | 1100 | 1075 | 335 | 240 | 1450 | 2 1/2 | 2 1/2 | 2 1/2 | 550 | 80 | ENY11E-NRB2+EM40x200A+MXV200/65 | 1570 | 175 | 1 1/4 | 440 | c |
| ENY10E-NRB2+EM40x250C | 1350 | 1100 | 1140 | 355 | 280 | 1450 | 2 1/2 | 2 1/2 | 2 1/2 | 550 | 80 | ENY11E-NRB2+EM40x250C+MXV200/80 | 1570 | 175 | 1 1/4 | 440 | c |
| ENY10E-NRB2+EM40x250B | 1350 | 1100 | 1140 | 355 | 280 | 1450 | 2 1/2 | 2 1/2 | 2 1/2 | 550 | 80 | ENY11E-NRB2+EM40x250B+MXV200/90 | 1570 | 175 | 1 1/4 | 440 | c |
| ENY10E-NRB2+EM40x250A | 1350 | 1500 | 1170 | 385 | 280 | 1550 | 2 1/2 | 2 1/2 | 2 1/2 | 550 | 80 | ENY11E-NRB2+EM40x250A+MXV200/110 | 1570 | 175 | 1 1/4 | 440 | c |
| END10E-NRB2+EM50x160A | 1450 | 1100 | 1125 | 335 | 240 | 1450 | 4" | 2 1/2 | 2 1/2 | 600 | 80 | END11E-NRB2+EM50x160A+MXV200/65 | 1670 | 175 | 1 1/4 | 490 | e |
| END10E-NRB2+EM50x200C | 1450 | 1100 | 1145 | 335 | 240 | 1450 | 4" | 2 1/2 | 2 1/2 | 600 | 80 | END11E-NRB2+EM50x200C+MXV200/52 | 1670 | 175 | 1 1/4 | 490 | e |
| ENY10E-NRB2+EM50x200B | 1450 | 1100 | 1145 | 335 | 240 | 1450 | 4" | 2 1/2 | 2 1/2 | 600 | 80 | ENY11E-NRB2+EM50x200B+MXV200/65 | 1670 | 175 | 1 1/4 | 490 | e |
| ENY10E-NRB2+EM50x200A | 1450 | 1100 | 1185 | 350 | 240 | 1450 | 4" | 2 1/2 | 2 1/2 | 600 | 80 | ENY11E-NRB2+EM50x200A+MXV200/65 | 1670 | 175 | 1 1/4 | 490 | e |
| ENY10E-NRB2+EM50x250D | 1450 | 1300 | 1190 | 355 | 260 | 1650 | 4" | 2 1/2 | 2 1/2 | 600 | 80 | ENY11E-NRB2+EM50x250D+MXV200/80 | 1670 | 175 | 1 1/4 | 490 | e |
| ENY10E-NRB2+EM50x250C | 1450 | 1500 | 1220 | 385 | 260 | 1650 | 4" | 2 1/2 | 2 1/2 | 600 | 80 | ENY11E-NRB2+EM50x250C+MXV200/80 | 1670 | 175 | 1 1/4 | 490 | e |
| ENY10E-NRB2+EM50x250B | 1450 | 1500 | 1220 | 385 | 260 | 1650 | 4" | 2 1/2 | 2 1/2 | 600 | 80 | ENY11E-NRB2+EM50x250B+MXV200/110 | 1670 | 175 | 1 1/4 | 490 | e |
| ENY10E-NRB2+EM50x250A | 1550 | 1650 | 1255 | 425 | 320 | 1650 | 4" | 2 1/2 | 2 1/2 | 600 | 100 | ENY11E-NRB2+EM50x250A+MXV200/110 | 1700 | 195 | 1 1/4 | 490 | e |
| ENY10E-NRB2+EM65x160B | 1450 | 1100 | 1360 | 335 | 320 | 1450 | 5" | 3" | 3" | 600 | 80 | ENY11E-NRB2+EM65x160B+MXV200/52 | 1670 | 175 | 1 1/4 | 490 | g |
| ENY10E-NRB2+EM65x180A | 1450 | 1300 | 1375 | 350 | 320 | 1450 | 5" | 3" | 3" | 600 | 80 | ENY11E-NRB2+EM65x180A+MXV200/65 | 1670 | 175 | 1 1/4 | 490 | g |
| ENY10E-NRB2+EM65x200C | 1450 | 1500 | 1435 | 385 | 360 | 1550 | 5" | 3" | 3" | 600 | 80 | ENY11E-NRB2+EM65x200C+MXV200/52 | 1670 | 175 | 1 1/4 | 490 | g |
| ENY10E-NRB2+EM65x200B | 1450 | 1500 | 1455 | 405 | 380 | 1550 | 5" | 3" | 3" | 600 | 100 | ENY11E-NRB2+EM65x200B+MXV200/65 | 1670 | 195 | 1 1/4 | 490 | g |
| ENY10E-NRB2+EM65x200A | 1550 | 1650 | 1475 | 425 | 400 | 1600 | 5" | 3" | 3" | 600 | 100 | ENY11E-NRB2+EM65x200A+MXV200/65 | 1700 | 195 | 1 1/4 | 490 | g |
| ENY10E-NRB2+EM65x250C | 1550 | 1650 | 1500 | 425 | 400 | 1600 | 5" | 3" | 3" | 600 | 100 | ENY11E-NRB2+EM65x250C+MXV200/80 | 1700 | 195 | 1 1/4 | 490 | g |
| ENY10E-NRB2+EM65x250B | 1550 | 1650 | 1500 | 425 | 400 | 1600 | 5" | 3" | 3" | 600 | 100 | ENY11E-NRB2+EM65x250B+MXV200/110 | 1700 | 195 | 1 1/4 | 490 | g |
| ENY10E-NRB2+EM65x250A | 1550 | 1650 | 1520 | 425 | 445 | 1600 | 5" | 3" | 3" | 600 | 100 | ENY11E-NRB2+EM65x250A+MXV200/110 | 1700 | 215 | 1 1/4 | 490 | g |
| ENY10E-NRB2+EM80x160A | 1550 | 1500 | 1535 | 385 | 340 | 1550 | 6" | 4" | 4" | 700 | 80 | ENY11E-NRB2+EM80x160A+MXV200/65 | 1770 | 175 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM80x200C | 1550 | 1500 | 1555 | 405 | 360 | 1550 | 6" | 4" | 4" | 700 | 100 | ENY11E-NRB2+EM80x200C+MXV200/52 | 1800 | 195 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM80x200B | 1550 | 1650 | 1560 | 425 | 400 | 1600 | 6" | 4" | 4" | 700 | 100 | ENY11E-NRB2+EM80x200B+MXV200/65 | 1800 | 195 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM80x250D | 1550 | 1650 | 1580 | 425 | 400 | 1600 | 6" | 4" | 4" | 700 | 100 | ENY11E-NRB2+EM80x250D+MXV200/80 | 1800 | 195 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM80x250C | 1550 | 1650 | 1590 | 425 | 400 | 1600 | 6" | 4" | 4" | 700 | 100 | ENY11E-NRB2+EM80x250C+MXV200/80 | 1800 | 195 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM80x250B | 1600 | 2200 | 1610 | 445 | 470 | 1800 | 6" | 4" | 4" | 700 | 120 | ENY11E-NRB2+EM80x250B+MXV200/110 | 1800 | 215 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM80x250A | 1600 | 2300 | 1650 | 480 | 510 | 1800 | 6" | 4" | 4" | 700 | 160 | ENY11E-NRB2+EM80x250A+MXV200/110 | 1800 | 255 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM100x200D | 1500 | 1500 | 1635 | 425 | 400 | 1550 | 8" | 5" | 5" | 700 | 120 | ENY11E-NRB2+EM100x200D+MXV200/52 | 1800 | 215 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM100x200C | 1550 | 1650 | 1655 | 445 | 420 | 1550 | 8" | 5" | 5" | 700 | 120 | ENY11E-NRB2+EM100x200C+MXV200/52 | 1800 | 215 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM100x200B | 1550 | 1650 | 1655 | 445 | 445 | 1600 | 8" | 5" | 5" | 700 | 120 | ENY11E-NRB2+EM100x200B+MXV200/65 | 1800 | 215 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM100x200A | 1550 | 1650 | 1655 | 445 | 445 | 1600 | 8" | 5" | 5" | 700 | 120 | ENY11E-NRB2+EM100x200A+MXV200/65 | 1800 | 215 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM100x250D | 1550 | 1650 | 1680 | 510 | 445 | 1600 | 8" | 5" | 5" | 700 | 120 | ENY11E-NRB2+EM100x250D+MXV200/80 | 1800 | 215 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM100x250C | 1600 | 2200 | 1720 | 510 | 510 | 1600 | 8" | 5" | 5" | 700 | 160 | ENY11E-NRB2+EM100x250C+MXV200/80 | 1800 | 255 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM100x250B | 1600 | 2300 | 1710 | 500 | 535 | 1800 | 8" | 5" | 5" | 700 | 160 | ENY11E-NRB2+EM100x250B+MXV200/110 | 1800 | 255 | 1 1/4 | 490 | i |
| ENY10E-NRB2+EM100x250A | 1600 | 2300 | 1710 | 500 | 535 | 1800 | 8" | 5" | 5" | 700 | 160 | ENY11E-NRB2+EM100x250A+MXV200/110 | 1800 | 255 | 1 1/4 | 490 | i |

Rif/Ref. Asam: v. accessori / see accessories

EN.10E2-NRB2+EM / EN.11E2-NRB2+EM+MXV

Gruppi di pressione antincendio con elettropompa principale, due motopompe e pompa pilota opzionale.

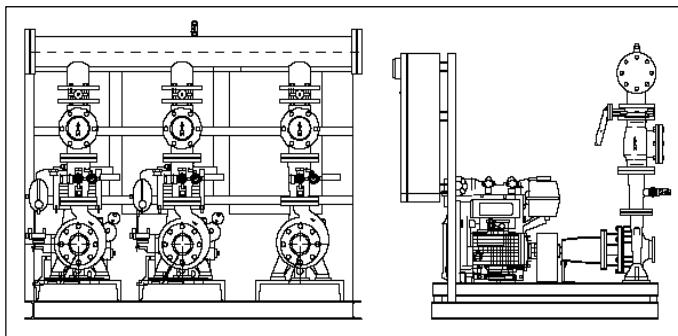
Fire-fighting pressure units with main electric pump, two motor pumps and optional pilot pump.

APPLICAZIONI

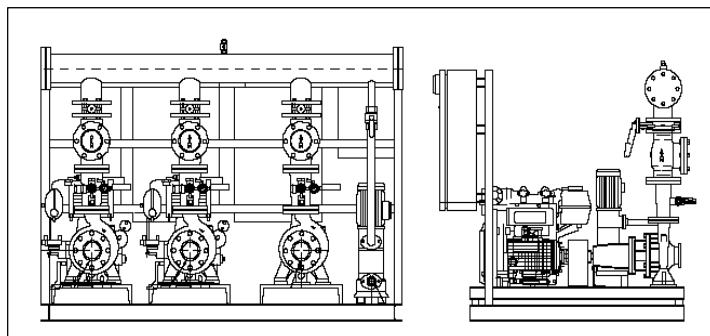
Alimentazioni d'impianti antincendio per sprinkler (EN12845)
 Alimentazioni d'impianti antincendio per idranti (UNI10779)

APPLICATION

Supply fire-fighting systems with sprinklers (EN12845)
 Supply fire-fighting systems with hydrants (UNI10779)



EN.10E2-NRB2+EM



EN.11E2-NRB2+EM+MXV

DATI TECNICI - TECHNICAL DATA

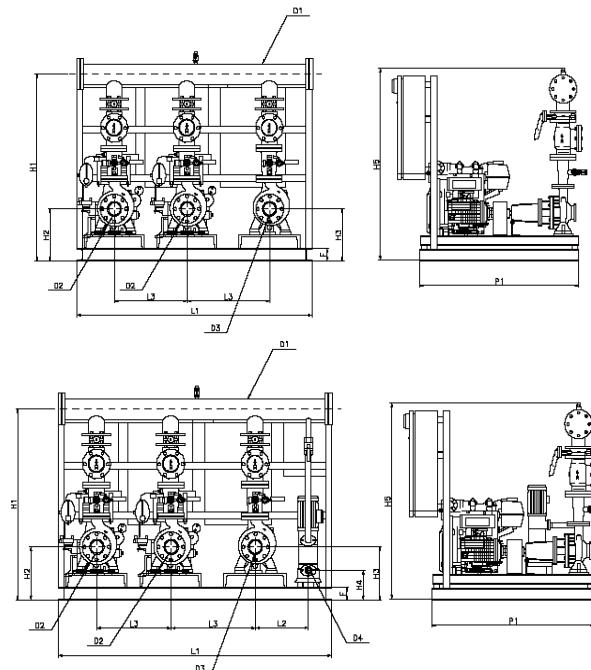
| Composizione gruppo di pressione <i>Pressure unit composition</i> | Motopompa <i>Motor pump</i> | Elettropompa principale <i>Main electric pump</i> | Elettropompa pilota <i>Pilot electric pump</i> |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| | n.2 | n.1 | n.1 |
| Avviamento: <i>Start-up:</i> | Motore diesel <i>Diesel motor</i> | $\leq 7,5\text{kw}$ Diretto - <i>direct</i> $> 7,5\text{Kw}$ Stella/triangolo <i>Star/delta</i> | Diretto - <i>direct</i> |
| Alimentazione: <i>Power supply:</i> | 1x230V | 3x400V | 3x400V |
| Frequenza: <i>Frequency:</i> | 50Hz | | |
| Grado di protezione: <i>Level of protection:</i> | IP 54 quadro elettrico - <i>IP 54 electric panel</i> IP 55 pompa - <i>IP 55 pump</i> IP 44 elettropompa pilota (opzionale) - <i>IP 44 pilot electric pump (optional)</i> | | |
| Pressione max <i>Max pressure</i> | 16 Bar | | |
| Prestazioni idrauliche <i>Hydraulic performances</i> | Idoneo per alimentazione <i>Suitable for water supply</i> | Qmax | Hmax |
| | - Singola <i>single</i> | 660 m ³ /h | 10 bar |
| | - Singola - Superiore <i>Single superior</i> | | |
| | - Doppia <i>double</i> | | |

**GRUPPI DI PRESSIONE ANTINCENDIO EN12845 - EN.10E2-NRB2+EM /
 EN.11E2-NRB2+EM+MXV
 FIRE-FIGHTING PRESSURE UNITS EN12845 - EN.10E2-NRB2+EM /
 EN.11E2-NRB2+EM+MXV**

TABELLE DELLE PRESTAZIONI IDRAULICHE ⁽¹⁾
TABLE OF HYDRAULIC PERFORMANCES ⁽¹⁾

| Mod | I/1' | 0 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | | | | | | |
|----------|---------------|------|-------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|
| | mc/h | 0 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | | | | | | |
| 32x160A | m.c.a. m.w.c. | 38,6 | 38 | 36,5 | 35 | 32,5 | 30 | 26,5 | | | | | | | | |
| 32x200C | | 48,7 | 47,5 | 46,5 | 44,5 | 42,5 | 39 | 35 | | | | | | | | |
| 32x200B | | 57 | 56 | 55 | 53,5 | 51,5 | 49,5 | 46 | 42 | 37 | | | | | | |
| 32x200A | | 62,2 | 61 | 60,5 | 59 | 57,5 | 55 | 52,5 | 49 | 45 | | | | | | |
| Mod | I/1' | 0 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | | |
| | mc/h | 0 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | | |
| 40x160A | m.c.a. m.w.c. | 38 | 37 | 36,5 | 35,5 | 34,5 | 33,5 | 32,5 | 31 | 29 | 26,5 | | | | | |
| 40x200C | | 46 | 43,5 | 43 | 42 | 40 | 38 | 36 | 33 | 29 | 24 | | | | | |
| 40x200B | | 54 | 52 | 51 | 50 | 49 | 47 | 45 | 43 | 40 | 37 | 33 | 28 | | | |
| 40x200A | | 59 | 57 | 56,5 | 55,5 | 54 | 53 | 51 | 49 | 47 | 44 | 41 | 37 | | | |
| 40x250C | | 74 | 73 | 72 | 71 | 70 | 67,5 | 65 | 62 | 57 | 51 | 44 | | | | |
| 40x250B | | 83,5 | 82,5 | 82 | 81 | 80 | 79 | 77 | 75 | 72 | 68 | 63 | 56 | | | |
| 40x250A | m.c.a. m.w.c. | 94 | 93 | 92,5 | 92 | 91 | 90 | 88 | 86 | 84 | 81 | 77 | 72 | 67 | | |
| Mod | I/1' | 0 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | | | |
| | mc/h | 0 | 48 | 54 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 | 156 | | | |
| 50x160A | 37,4 | 37 | 36,5 | 36 | 35 | 34 | 32,5 | 31 | 29 | 26 | | | | | | |
| 50x200C | 48,2 | 47 | 46,5 | 45 | 43 | 40 | 36 | 31,5 | | | | | | | | |
| 50x200B | 53,5 | 52,5 | 52 | 51,5 | 49,5 | 46,5 | 43,5 | 39,5 | 35 | | | | | | | |
| 50x200A | m.c.a. m.w.c. | 58,2 | 57,5 | 57 | 56,5 | 55 | 53 | 50 | 46,5 | 43 | | | | | | |
| 50x250D | | 72,5 | 71,25 | 70 | 69,5 | 67,5 | 65 | 61,5 | 57,5 | 51 | | | | | | |
| 50x250C | | 79 | 78 | 77 | 76,5 | 75 | 72,5 | 69,5 | 66 | 61,5 | 55,5 | | | | | |
| 50x250B | | 89,5 | 88,75 | 88 | 87,5 | 86 | 84 | 82 | 78,5 | 74,5 | 69 | | | | | |
| 50x250A | | 96 | 95,25 | 94,5 | 94 | 93 | 91,5 | 89,5 | 86,5 | 83,5 | 80 | 75,5 | 70 | | | |
| Mod | I/1' | 0 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3600 | 4000 | 4500 | |
| | mc/h | 0 | 84 | 96 | 108 | 120 | 132 | 144 | 156 | 168 | 180 | 192 | 216 | 240 | 270 | |
| 65x160B | m.c.a. m.w.c. | 34,2 | 33,8 | 33 | 32,5 | 32 | 31,5 | 30,5 | 29,5 | 28,5 | 27 | 25,5 | 22,5 | | | |
| 65x160A | | 41,5 | 40,8 | 40 | 39,5 | 39 | 38,5 | 38 | 37,5 | 36,5 | 35,5 | 34,5 | 32 | 29 | | |
| 65x200C | | 52,2 | 51,6 | 51 | 50,6 | 50,4 | 50,2 | 50,1 | 49,7 | 48,6 | 47,5 | 46 | 43 | 39 | | |
| 65x200B | | 58 | 57,75 | 57,5 | 57 | 56,6 | 55,5 | 56,3 | 56 | 55,5 | 54,5 | 53,5 | 50,5 | 47,5 | 42,5 | |
| 65x200A | | 63 | 62,5 | 62 | 61,7 | 61,5 | 61,3 | 61,1 | 61 | 60,5 | 60 | 59 | 57,5 | 55 | 50 | |
| 65x250C | | 73,2 | 72,6 | 72 | 71,5 | 71 | 70 | 68,5 | 67 | 65 | 63,3 | 61,2 | 57 | | | |
| 65x250B | m.c.a. m.w.c. | 83 | 82,75 | 82,5 | 82 | 81,5 | 80,5 | 79,5 | 78,5 | 77 | 75,5 | 74 | 70 | 65,5 | 59,5 | |
| 65x250A | | 93 | 92,75 | 92,5 | 92 | 91,5 | 91 | 90 | 89 | 88 | 87 | 86 | 82 | 78 | 72,5 | |
| Mod | I/1' | 0 | 2400 | 2600 | 2800 | 3000 | 3200 | 3600 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 8000 |
| | mc/h | 0 | 144 | 156 | 168 | 180 | 192 | 216 | 240 | 270 | 300 | 330 | 360 | 390 | 420 | 480 |
| 80x160A | m.c.a. m.w.c. | 39,2 | 38 | 37,8 | 37,6 | 37,2 | 36,8 | 36,5 | 35,5 | 34,5 | 33 | 31,5 | 29 | 27 | | |
| 80x200C | | 46,5 | 44,6 | 44,5 | 44 | 43,5 | 43 | 42 | 40,5 | 38,5 | 36,5 | 33,5 | 31 | | | |
| 80x200B | | 54 | 53 | 52,5 | 52 | 51,5 | 51 | 50,5 | 49,5 | 48 | 46 | 44 | 41,5 | 38,5 | | |
| 80x200A | | 59 | 58,5 | 58 | 57,5 | 57 | 56,5 | 56 | 55,5 | 54 | 52,5 | 50,5 | 48,5 | 46 | 43,5 | |
| 80x250D | | 70 | 69,5 | 69,0 | 68,5 | 68 | 67,5 | 66,5 | 65 | 62,5 | 60 | 56 | 51 | | | |
| 80x250C | | 76 | 76,1 | 75,6 | 75,1 | 74,6 | 74,5 | 73,5 | 72,5 | 70,5 | 68 | 65 | 61,5 | 57,5 | 53 | |
| 80x250B | m.c.a. m.w.c. | 85,5 | 85,5 | 85,0 | 84,5 | 84 | 83,5 | 83 | 82 | 81 | 78,5 | 76 | 73,5 | 70 | 66 | |
| 80x250A | | 92 | 92,0 | 91,5 | 91,0 | 90,5 | 90 | 89,5 | 89 | 87,5 | 86 | 84 | 81,5 | 78,5 | 75 | 66 |
| Mod | I/1' | 0 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 8000 | 9000 | 10000 | 11000 | | | |
| | mc/h | 0 | 240 | 270 | 300 | 330 | 360 | 390 | 420 | 480 | 540 | 600 | 660 | | | |
| 100X200D | m.c.a. m.w.c. | 39,5 | 37,5 | 36,5 | 35 | 33,5 | 31,5 | 29 | 27 | 20,5 | | | | | | |
| 100X200C | | 46,8 | 45 | 44,5 | 43,5 | 42,5 | 41 | 39,5 | 37,5 | 33 | 27 | | | | | |
| 100X200B | | 51,8 | 50,5 | 50 | 49,5 | 48,5 | 47,5 | 46,5 | 45 | 41,5 | 36,5 | 31 | | | | |
| 100X200A | | 56,5 | 55,5 | 55 | 54,5 | 54 | 53 | 52 | 51 | 48 | 43,5 | 38 | | | | |
| 100X250D | | 68 | 66,5 | 66 | 65 | 63,5 | 61,5 | 58,5 | 56 | 49,5 | | | | | | |
| 100X250C | | 74 | 73 | 72,5 | 72 | 71 | 69,5 | 68 | 66 | 61 | 53,5 | | | | | |
| 100X250B | m.c.a. m.w.c. | 84,2 | 83 | 82,8 | 82,5 | 82 | 81 | 79,5 | 78 | 74 | 70 | 63 | 55 | | | |
| 100X250A | | 90,5 | 89,5 | 89,3 | 89 | 88,2 | 87,5 | 86,5 | 85,5 | 82,5 | 78 | 73 | 65 | | | |

⁽¹⁾ prestazioni relative a due pompe in funzione idonee per alimentazione; singole, doppia e superiore
⁽¹⁾ with two running pumps suitable for single, double and superior water supplies

**MISURE D'INGOMBRO: EN.10E2-NRB2+EM / EN.11E2-NRB2+EM+MXV
 OVERALL DIMENSIONS: EN.10E2-NRB2+EM / EN.11E2-NRB2+EM+MXV**


| Model | Dimensions, in mm | | | | | | | | | | Modello con pompa pilota Model with pilot pump | Dimensions, in mm | | | | Rif/Ref Asam | |
|-------------------------|-------------------|------|------|-----|-----|------|-----|--------|--------|-----|---------------------------------------------------|------------------------------------|------|-----|-------|-----------------|---|
| | L1 | P1 | H1 | H2 | H3 | H5 | D1 | D2 | D3 | L3 | F | L1 | H4 | D4 | L2 | | |
| END10E2-NRB2+EM32x160A | 1900 | 1100 | 1080 | 350 | 232 | 1470 | 3" | 2" | 2" | 550 | 100 | END11E2-NRB2+EM32x160A+MXV200/65 | 2120 | 195 | 1 1/4 | 440 | b |
| END10E2-NRB2+EM32x200C | 1900 | 1100 | 1110 | 355 | 260 | 1470 | 3" | 2" | 2" | 550 | 100 | END11E2-NRB2+EM32x200C+MXV200/52 | 2120 | 195 | 1 1/4 | 440 | b |
| END10E2-NRB2+EM32x200B | 1900 | 1100 | 1110 | 355 | 260 | 1470 | 3" | 2" | 2" | 550 | 100 | END11E2-NRB2+EM32x200B+MXV200/65 | 2120 | 195 | 1 1/4 | 440 | b |
| END10E2-NRB2+EM32x200A | 1900 | 1100 | 1110 | 355 | 260 | 1470 | 3" | 2" | 2" | 550 | 100 | END11E2-NRB2+EM32x200A+MXV200/65 | 2120 | 195 | 1 1/4 | 440 | b |
| END10E2-NRB2+EM40x160A | 1900 | 1100 | 1100 | 350 | 232 | 1470 | 4" | 2 1/2" | 2 1/2" | 550 | 100 | END11E2-NRB2+EM40x160A+MXV200/65 | 2120 | 195 | 1 1/4 | 440 | d |
| END10E2-NRB2+EM40x200C | 1900 | 1100 | 1120 | 355 | 260 | 1470 | 4" | 2 1/2" | 2 1/2" | 550 | 100 | END11E2-NRB2+EM40x200C+MXV200/52 | 2120 | 195 | 1 1/4 | 440 | d |
| END10E2-NRB2+EM40x200B | 1900 | 1100 | 1120 | 355 | 260 | 1470 | 4" | 2 1/2" | 2 1/2" | 550 | 100 | END11E2-NRB2+EM40x200B+MXV200/65 | 2120 | 195 | 1 1/4 | 440 | d |
| ENY10E2-NRB2+EM40x200A | 1900 | 1100 | 1120 | 355 | 260 | 1470 | 4" | 2 1/2" | 2 1/2" | 550 | 100 | ENY11E2-NRB2+EM40x200A+MXV200/65 | 2120 | 195 | 1 1/4 | 440 | d |
| ENY10E2-NRB2+EM40x250C | 1900 | 1100 | 1190 | 375 | 280 | 1470 | 4" | 2 1/2" | 2 1/2" | 550 | 100 | ENY11E2-NRB2+EM40x250C+MXV200/80 | 2120 | 195 | 1 1/4 | 440 | d |
| ENY10E2-NRB2+EM40x250B | 2200 | 1300 | 1190 | 375 | 280 | 1470 | 4" | 2 1/2" | 2 1/2" | 700 | 100 | ENY11E2-NRB2+EM40x250B+MXV200/90 | 2420 | 195 | 1 1/4 | 440 | d |
| ENY10E2-NRB2+EM40x250A | 2200 | 1500 | 1230 | 405 | 280 | 1570 | 4" | 2 1/2" | 2 1/2" | 700 | 100 | ENY11E2-NRB2+EM40x250A+MXV200/110 | 2420 | 195 | 1 1/4 | 440 | d |
| END10E2-NRB2+EM50x160A | 2000 | 1100 | 1165 | 355 | 280 | 1470 | 5" | 2 1/2" | 2 1/2" | 600 | 100 | END11E2-NRB2+EM50x160A+MXV200/65 | 2300 | 195 | 1 1/4 | 490 | f |
| END10E2-NRB2+EM50x200C | 2000 | 1100 | 1165 | 355 | 260 | 1470 | 5" | 2 1/2" | 2 1/2" | 600 | 100 | END11E2-NRB2+EM50x200C+MXV200/52 | 2300 | 195 | 1 1/4 | 490 | f |
| END10E2-NRB2+EM50x200B | 2000 | 1100 | 1185 | 355 | 260 | 1470 | 5" | 2 1/2" | 2 1/2" | 600 | 100 | END11E2-NRB2+EM50x200B+MXV200/65 | 2300 | 195 | 1 1/4 | 490 | f |
| END10E2-NRB2+EM50x200A | 2200 | 1100 | 1225 | 370 | 260 | 1470 | 5" | 2 1/2" | 2 1/2" | 700 | 100 | END11E2-NRB2+EM50x200A+MXV200/65 | 2500 | 195 | 1 1/4 | 490 | f |
| END10E2-NRB2+EM50x250D | 2200 | 1300 | 1230 | 375 | 280 | 1670 | 5" | 2 1/2" | 2 1/2" | 700 | 100 | END11E2-NRB2+EM50x250D+MXV200/80 | 2500 | 195 | 1 1/4 | 490 | f |
| END10E2-NRB2+EM50x250C | 2200 | 1500 | 1260 | 405 | 280 | 1670 | 5" | 2 1/2" | 2 1/2" | 700 | 100 | END11E2-NRB2+EM50x250C+MXV200/80 | 2500 | 195 | 1 1/4 | 490 | f |
| END10E2-NRB2+EM50x250B | 2200 | 1500 | 1260 | 405 | 280 | 1670 | 5" | 2 1/2" | 2 1/2" | 700 | 100 | END11E2-NRB2+EM50x250B+MXV200/110 | 2500 | 195 | 1 1/4 | 490 | f |
| END10E2-NRB2+EM50x250A | 2300 | 1650 | 1295 | 445 | 340 | 1700 | 5" | 2 1/2" | 2 1/2" | 700 | 120 | END11E2-NRB2+EM50x250A+MXV200/110 | 2600 | 215 | 1 1/4 | 490 | f |
| ENY10E2-NRB2+EM65x160B | 2200 | 1100 | 1410 | 355 | 340 | 1470 | 8" | 3" | 3" | 700 | 100 | ENY11E2-NRB2+EM65x160B+MXV200/52 | 2500 | 195 | 1 1/4 | 490 | h |
| ENY10E2-NRB2+EM65x180A | 2200 | 1300 | 1425 | 370 | 340 | 1470 | 8" | 3" | 3" | 700 | 100 | ENY11E2-NRB2+EM65x180A+MXV200/65 | 2500 | 195 | 1 1/4 | 490 | h |
| ENY10E2-NRB2+EM65x200C | 2200 | 1500 | 1485 | 405 | 380 | 1570 | 8" | 3" | 3" | 700 | 100 | ENY11E2-NRB2+EM65x200C+MXV200/52 | 2500 | 195 | 1 1/4 | 490 | h |
| ENY10E2-NRB2+EM65x200B | 2200 | 1500 | 1510 | 425 | 380 | 1570 | 8" | 3" | 3" | 700 | 120 | ENY11E2-NRB2+EM65x200B+MXV200/65 | 2500 | 215 | 1 1/4 | 490 | h |
| ENY10E2-NRB2+EM65x200A | 2300 | 1650 | 1525 | 445 | 420 | 1620 | 8" | 3" | 3" | 700 | 120 | ENY11E2-NRB2+EM65x200A+MXV200/65 | 2600 | 215 | 1 1/4 | 490 | h |
| ENY10E2-NRB2+EM65x250C | 2300 | 1650 | 1550 | 445 | 420 | 1620 | 8" | 3" | 3" | 700 | 120 | ENY11E2-NRB2+EM65x250C+MXV200/80 | 2600 | 215 | 1 1/4 | 490 | h |
| ENY10E2-NRB2+EM65x250B | 2300 | 1650 | 1550 | 445 | 420 | 1620 | 8" | 3" | 3" | 700 | 120 | ENY11E2-NRB2+EM65x250B+MXV200/110 | 2600 | 215 | 1 1/4 | 490 | h |
| ENY10E2-NRB2+EM65x250A | 2300 | 1650 | 1570 | 445 | 465 | 1620 | 8" | 3" | 3" | 700 | 120 | ENY11E2-NRB2+EM65x250A+MXV200/110 | 2600 | 235 | 1 1/4 | 490 | h |
| ENY10E2-NRB2+EM80x160A | 2200 | 1500 | 1585 | 405 | 380 | 1570 | 10" | 4" | 4" | 700 | 100 | ENY11E2-NRB2+EM80x160A+MXV200/65 | 2500 | 195 | 1 1/4 | 490 | m |
| ENY10E2-NRB2+EM80x200C | 2300 | 1500 | 1610 | 425 | 380 | 1570 | 10" | 4" | 4" | 700 | 120 | ENY11E2-NRB2+EM80x200C+MXV200/52 | 2600 | 215 | 1 1/4 | 490 | m |
| ENY10E2-NRB2+EM80x200B | 2300 | 1650 | 1620 | 445 | 420 | 1620 | 10" | 4" | 4" | 700 | 120 | ENY11E2-NRB2+EM80x200B+MXV200/65 | 2600 | 215 | 1 1/4 | 490 | m |
| ENY10E2-NRB2+EM80x200A | 2300 | 1650 | 1630 | 445 | 420 | 1620 | 10" | 4" | 4" | 700 | 120 | ENY11E2-NRB2+EM80x200A+MXV200/65 | 2600 | 215 | 1 1/4 | 490 | m |
| ENY10E2-NRB2+EM80x250D | 2300 | 1650 | 1660 | 445 | 420 | 1620 | 10" | 4" | 4" | 700 | 120 | ENY11E2-NRB2+EM80x250D+MXV200/80 | 2600 | 215 | 1 1/4 | 490 | m |
| ENY10E2-NRB2+EM80x250C | 2300 | 1650 | 1660 | 445 | 445 | 1620 | 10" | 4" | 4" | 700 | 120 | ENY11E2-NRB2+EM80x250C+MXV200/80 | 2600 | 215 | 1 1/4 | 490 | m |
| ENY10E2-NRB2+EM80x250B | 2300 | 2200 | 1670 | 485 | 510 | 1840 | 10" | 4" | 4" | 700 | 160 | ENY11E2-NRB2+EM80x250B+MXV200/110 | 2600 | 255 | 1 1/4 | 490 | m |
| ENY10E2-NRB2+EM80x250A | 2500 | 2300 | 1720 | 480 | 510 | 1800 | 10" | 4" | 4" | 800 | 160 | ENY11E2-NRB2+EM80x250A+MXV200/110 | 2800 | 255 | 1 1/4 | 490 | m |
| ENY10E2-NRB2+EM100x200D | 2200 | 1500 | 1685 | 425 | 400 | 1550 | 12" | 5" | 5" | 700 | 120 | ENY11E2-NRB2+EM100x200D+MXV200/52 | 2500 | 215 | 1 1/4 | 490 | n |
| ENY10E2-NRB2+EM100x200C | 2300 | 1650 | 1710 | 445 | 420 | 1550 | 12" | 5" | 5" | 700 | 120 | ENY11E2-NRB2+EM100x200C+MXV200/52 | 2600 | 215 | 1 1/4 | 490 | n |
| ENY10E2-NRB2+EM100x200B | 2300 | 1650 | 1710 | 445 | 420 | 1600 | 12" | 5" | 5" | 700 | 120 | ENY11E2-NRB2+EM100x200B+MXV200/65 | 2600 | 215 | 1 1/4 | 490 | n |
| ENY10E2-NRB2+EM100x200A | 2300 | 1650 | 1710 | 445 | 445 | 1600 | 12" | 5" | 5" | 700 | 120 | ENY11E2-NRB2+EM100x200A+MXV200/65 | 2600 | 215 | 1 1/4 | 490 | n |
| ENY10E2-NRB2+EM100x250D | 2300 | 1650 | 1730 | 510 | 445 | 1600 | 12" | 5" | 5" | 700 | 120 | ENY11E2-NRB2+EM100x250D+MXV200/80 | 2600 | 215 | 1 1/4 | 490 | n |
| ENY10E2-NRB2+EM100x250C | 2300 | 2200 | 1770 | 510 | 510 | 1600 | 12" | 5" | 5" | 700 | 160 | ENY11E2-NRB2+EM100x250C+MXV200/80 | 2600 | 255 | 1 1/4 | 490 | n |
| ENY10E2-NRB2+EM100x250B | 2500 | 2300 | 1770 | 500 | 535 | 1800 | 12" | 5" | 5" | 800 | 160 | ENY11E2-NRB2+EM100x250B+MXV200/110 | 2800 | 255 | 1 1/4 | 490 | n |
| ENY10E2-NRB2+EM100x250A | 2500 | 2300 | 1770 | 500 | 535 | 1800 | 12" | 5" | 5" | 800 | 160 | ENY11E2-NRB2+EM100x250A+MXV200/110 | 2800 | 255 | 1 1/4 | 490 | n |

Rif/Ref. Asam: v. accessori / see accessories

EN.20-NRB2 / EN.21-NRB2+MXV

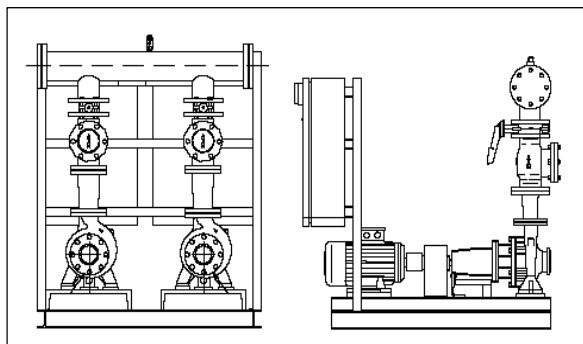
Gruppi di pressione antincendio con due elettropompe principali e pilota opzionale
Fire-fighting pressure unit with two main electric pumps and optional pilot

APPLICAZIONI

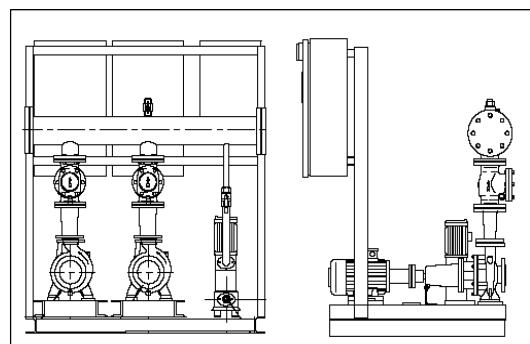
Alimentazioni d'impianti antincendio per sprinkler (EN12845)
 Alimentazioni d'impianti antincendio per idranti (UNI10779)

APPLICATION

Supply fire-fighting systems with sprinklers (EN12845)
 Supply fire-fighting systems with hydrants (UNI10779)



EN.20-NRB2



EN.21-NRB2+MXV

DATI TECNICI - TECHNICAL DATA

| Composizione gruppo di pressione <i>Pressure unit composition</i> | Motopompa <i>Motor pump</i> | Elettropompa principale <i>Main electric pump</i> | Elettropompa pilota <i>Pilot electric pump</i> |
|----------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| | - | n.2 | n.1 |
| Avviamento: Start-up: | - | <7,5kw Diretto - Direct > 7,5Kw Stella/triangolo Star/delta | Diretto direct |
| Alimentazione: Power supply: | - | 3x400V | 3x400V |
| Frequenza: Frequency: | | 50Hz | |
| Grado di protezione: Level of protection: | | IP 54 quadro elettrico - IP 54 electric panel IP 55 pompa - IP 55 pump IP 44 elettropompa pilota (opzionale) - IP 44 pilot electric pump (optional) | |
| Pressione max Max pressure | | 16 Bar | |
| Prestazioni idrauliche <i>Hydraulic performances</i> | Idoneo per alimentazione <i>Suitable for water supply</i> | Qmax | Hmax |
| | - Singola - single | 330 m ³ /h | 10 bar |

GRUPPI DI PRESSIONE ANTINCENDIO EN12845 - EN.20-NRB2 / EN.21-NRB2+MXV

FIRE-FIGHTING PRESSURE UNITS EN12845 - EN.20-NRB2 / EN.21-NRB2+MXV

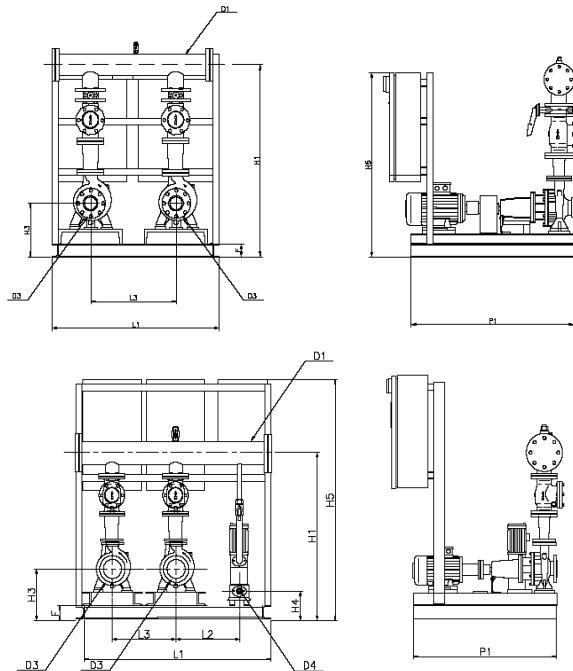
TABELLE DELLE PRESTAZIONI IDRAULICHE ⁽¹⁾

TABLE OF HYDRAULIC PERFORMANCES ⁽¹⁾

| Mod | I/1' | 0 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | | | | | | |
|----------|---------------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | mc/h | 0 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | | | | | | |
| 32x160A | m.c.a. m.w.c. | 38,6 | 38 | 36,5 | 35 | 32,5 | 30 | 26,5 | | | | | | | | |
| 32x200C | | 48,7 | 47,5 | 46,5 | 44,5 | 42,5 | 39 | 35 | | | | | | | | |
| 32x200B | | 57 | 56 | 55 | 53,5 | 51,5 | 49,5 | 46 | 42 | 37 | | | | | | |
| 32x200A | | 62,2 | 61 | 60,5 | 59 | 57,5 | 55 | 52,5 | 49 | 45 | | | | | | |
| Mod | I/1' | 0 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | | |
| | mc/h | 0 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | | |
| 40x160A | m.c.a. m.w.c. | 38 | 37 | 36,5 | 35,5 | 34,5 | 33,5 | 32,5 | 31 | 29 | 26,5 | | | | | |
| 40x200C | | 46 | 43,5 | 43 | 42 | 40 | 38 | 36 | 33 | 29 | 24 | | | | | |
| 40x200B | | 54 | 52 | 51 | 50 | 49 | 47 | 45 | 43 | 40 | 37 | 33 | 28 | | | |
| 40x200A | | 59 | 57 | 56,5 | 55,5 | 54 | 53 | 51 | 49 | 47 | 44 | 41 | 37 | | | |
| 40x250C | | 74 | 73 | 72 | 71 | 70 | 67,5 | 65 | 62 | 57 | 51 | 44 | | | | |
| 40x250B | | 83,5 | 82,5 | 82 | 81 | 80 | 79 | 77 | 75 | 72 | 68 | 63 | 56 | | | |
| 40x250A | | 94 | 93 | 92,5 | 92 | 91 | 90 | 88 | 86 | 84 | 81 | 77 | 72 | 67 | | |
| Mod | I/1' | 0 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | | | |
| | mc/h | 0 | 24 | 27 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | | | |
| 50x160A | m.c.a. m.w.c. | 37,4 | 37 | 36,5 | 36 | 35 | 34 | 32,5 | 31 | 29 | 26 | | | | | |
| 50x200C | | 48,2 | 47 | 46,5 | 45 | 43 | 40 | 36 | 31,5 | | | | | | | |
| 50x200B | | 53,5 | 52,5 | 52 | 51,5 | 49,5 | 46,5 | 43,5 | 39,5 | 35 | | | | | | |
| 50x200A | | 58,2 | 57,5 | 57 | 56,5 | 55 | 53 | 50 | 46,5 | 43 | | | | | | |
| 50x250D | | 72,5 | 71,25 | 70 | 69,5 | 67,5 | 65 | 61,5 | 57,5 | 51 | | | | | | |
| 50x250C | | 79 | 78 | 77 | 76,5 | 75 | 72,5 | 69,5 | 66 | 61,5 | 55,5 | | | | | |
| 50x250B | | 89,5 | 88,75 | 88 | 87,5 | 86 | 84 | 82 | 78,5 | 74,5 | 69 | | | | | |
| 50x250A | | 96 | 95,25 | 94,5 | 94 | 93 | 91,5 | 89,5 | 86,5 | 83,5 | 80 | 75,5 | 70 | | | |
| Mod | I/1' | 0 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 | 2250 | |
| | mc/h | 0 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 108 | 120 | 135 | |
| 65x160B | m.c.a. m.w.c. | 34,2 | 33,8 | 33 | 32,5 | 32 | 31,5 | 30,5 | 29,5 | 28,5 | 27 | 25,5 | 22,5 | | | |
| 65x160A | | 41,5 | 40,8 | 40 | 39,5 | 39 | 38,5 | 38 | 37,5 | 36,5 | 35,5 | 34,5 | 32 | 29 | | |
| 65x200C | | 52,2 | 51,6 | 51 | 50,6 | 50,4 | 50,2 | 50,1 | 49,7 | 48,6 | 47,5 | 46 | 43 | 39 | | |
| 65x200B | | 58 | 57,75 | 57,5 | 57 | 56,6 | 56,5 | 56,3 | 56 | 55,5 | 54,5 | 53,5 | 50,5 | 47,5 | 42,5 | |
| 65x200A | | 63 | 62,5 | 62 | 61,7 | 61,5 | 61,3 | 61,1 | 61 | 60,5 | 60 | 59 | 57,5 | 55 | 50 | |
| 65x250C | | 73,2 | 72,6 | 72 | 71,5 | 71 | 70 | 68,5 | 67 | 65 | 63,3 | 61,2 | 57 | | | |
| 65x250B | | 83 | 82,75 | 82,5 | 82 | 81,5 | 80,5 | 79,5 | 78,5 | 77 | 75,5 | 74 | 70 | 65,5 | 59,5 | |
| 65x250A | | 93 | 92,75 | 92,5 | 92 | 91,5 | 91 | 90 | 89 | 88 | 87 | 86 | 82 | 78 | 72,5 | |
| Mod | I/1' | 0 | 1200 | 1300 | 1400 | 1500 | 1600 | 1800 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 | 4000 |
| | mc/h | 0 | 72 | 78 | 84 | 90 | 96 | 108 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 240 |
| 80x160A | m.c.a. m.w.c. | 39,2 | 38 | 37,8 | 37,6 | 37,2 | 36,8 | 36,5 | 35,5 | 34,5 | 33 | 31,5 | 29 | 27 | | |
| 80x200C | | 46,5 | 44,6 | 44,5 | 44 | 43,5 | 43 | 42 | 40,5 | 38,5 | 36,5 | 33,5 | 31 | | | |
| 80x200B | | 54 | 53 | 52,5 | 52 | 51,5 | 51 | 50,5 | 49,5 | 48 | 46 | 44 | 41,5 | 38,5 | | |
| 80x200A | | 59 | 58,5 | 58 | 57,5 | 57 | 56,5 | 56 | 55,5 | 54 | 52,5 | 50,5 | 48,5 | 46 | 43,5 | |
| 80x250D | | 70 | 69,5 | 69,0 | 68,5 | 68 | 67,5 | 66,5 | 65 | 62,5 | 60 | 56 | 51 | | | |
| 80x250C | | 76 | 76,1 | 75,6 | 75,1 | 74,6 | 74,5 | 73,5 | 72,5 | 70,5 | 68 | 65 | 61,5 | 57,5 | 53 | |
| 80x250B | | 85,5 | 85,5 | 85,0 | 84,5 | 84 | 83,5 | 83 | 82 | 81 | 78,5 | 76 | 73,5 | 70 | 66 | |
| 80x250A | | 92 | 92,0 | 91,5 | 91,0 | 90,5 | 90 | 89,5 | 89 | 87,5 | 86 | 84 | 81,5 | 78,5 | 75 | 66 |
| Mod | I/1' | 0 | 2000 | 2250 | 2500 | 2750 | 3000 | 3250 | 3500 | 4000 | 4500 | 5000 | 5500 | | | |
| | mc/h | 0 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 240 | 270 | 300 | 330 | | | |
| 100X200D | m.c.a. m.w.c. | 39,5 | 37,5 | 36,5 | 35 | 33,5 | 31,5 | 29 | 27 | 20,5 | | | | | | |
| 100X200C | | 46,8 | 45 | 44,5 | 43,5 | 42,5 | 41 | 39,5 | 37,5 | 33 | 27 | | | | | |
| 100X200B | | 51,8 | 50,5 | 50 | 49,5 | 48,5 | 47,5 | 46,5 | 45 | 41,5 | 36,5 | 31 | | | | |
| 100X200A | | 56,5 | 55,5 | 55 | 54,5 | 54 | 53 | 52 | 51 | 48 | 43,5 | 38 | | | | |
| 100X250D | | 68 | 66,5 | 66 | 65 | 63,5 | 61,5 | 58,5 | 56 | 49,5 | | | | | | |
| 100X250C | | 74 | 73 | 72,5 | 72 | 71 | 69,5 | 68 | 66 | 61 | 53,5 | | | | | |
| 100X250B | | 84,2 | 83 | 82,8 | 82,5 | 82 | 81 | 79,5 | 78 | 74 | 70 | 63 | 55 | | | |
| 100X250A | | 90,5 | 89,5 | 89,3 | 89 | 88,2 | 87,5 | 86,5 | 85,5 | 82,5 | 78 | 73 | 65 | | | |

⁽¹⁾ prestazioni relative ad una pompa in funzione idonea per alimentazione; singole, doppia e superiore

⁽¹⁾ with a running pump suitable for single, double and superior water supply

**MISURE D'INGOMBRO: EN.20-NRB2 / EN.21-NRB2+MXV
OVERALL DIMENSIONS: EN.20-NRB2 / EN.21-NRB2+MXV**


| Model | Dimensions in mm | | | | | | | | | Modello con pompa pilota Model with pilot pump | Dimensions in mm | | | | Rif/Ref Asam |
|---------------------|------------------|------|------|-----|------|--------|--------|-----|-----|---------------------------------------------------|------------------|-----|--------|-----|-----------------|
| | L1 | P1 | H1 | H3 | H5 | D1 | D3 | L3 | F | | L1 | H4 | D4 | L2 | |
| END20-NRB2 32x160A | 1170 | 1100 | 862 | 292 | 1260 | 2 1/2" | 2" | 550 | 80 | END21-NRB2 32x160A+MXV200/65 | 1500 | 175 | 1 1/4" | 440 | a |
| END20-NRB2 32x200C | 1170 | 1100 | 910 | 320 | 1260 | 2 1/2" | 2" | 550 | 80 | END21-NRB2 32x200C+MXV200/52 | 1500 | 175 | 1 1/4" | 440 | a |
| END20-NRB2 32x200B | 1170 | 1100 | 910 | 320 | 1260 | 2 1/2" | 2" | 550 | 80 | END21-NRB2 32x200B+MXV200/65 | 1500 | 175 | 1 1/4" | 440 | a |
| END20-NRB2 32x200A | 1170 | 1100 | 910 | 320 | 1260 | 2 1/2" | 2" | 550 | 80 | END21-NRB2 32x200A+MXV200/65 | 1500 | 175 | 1 1/4" | 440 | a |
| END20-NRB2 40x160A | 1170 | 1100 | 872 | 292 | 1260 | 4" | 2 1/2" | 550 | 80 | END21-NRB2 40x160A+MXV200/65 | 1500 | 175 | 1 1/4" | 440 | c |
| END20-NRB2 40x200C | 1170 | 1100 | 920 | 320 | 1260 | 4" | 2 1/2" | 550 | 80 | END21-NRB2 40x200C+MXV200/52 | 1500 | 175 | 1 1/4" | 440 | c |
| END20-NRB2 40x200B | 1170 | 1100 | 920 | 320 | 1260 | 4" | 2 1/2" | 550 | 80 | END21-NRB2 40x200B+MXV200/65 | 1500 | 175 | 1 1/4" | 440 | c |
| ENY20-NRB2 40x200A | 1170 | 1100 | 920 | 320 | 1450 | 4" | 2 1/2" | 550 | 80 | ENY21-NRB2 40x200A+MXV200/65 | 1500 | 175 | 1 1/4" | 440 | c |
| ENY20-NRB2 40x250C | 1170 | 1100 | 985 | 340 | 1450 | 4" | 2 1/2" | 550 | 80 | ENY21-NRB2 40x250C+MXV200/80 | 1500 | 175 | 1 1/4" | 440 | c |
| ENY20-NRB2 40x250B | 1170 | 1100 | 985 | 340 | 1450 | 4" | 2 1/2" | 550 | 80 | ENY21-NRB2 40x250B+MXV200/90 | 1500 | 175 | 1 1/4" | 440 | c |
| ENY20-NRB2 40x250A | 1170 | 1250 | 985 | 340 | 1450 | 4" | 2 1/2" | 550 | 80 | ENY21-NRB2 40x250A+MXV200/110 | 1500 | 175 | 1 1/4" | 440 | c |
| END20-NRB2 50x160A | 1260 | 1100 | 980 | 320 | 1260 | 4" | 2 1/2" | 600 | 80 | END21-NRB2 50x160A+MXV200/65 | 1570 | 175 | 1 1/4" | 490 | e |
| END20-NRB2 50x200C | 1260 | 1100 | 1000 | 320 | 1260 | 4" | 2 1/2" | 600 | 80 | END21-NRB2 50x200C+MXV200/52 | 1570 | 175 | 1 1/4" | 490 | e |
| ENY20-NRB2 50x200B | 1260 | 1100 | 1000 | 320 | 1450 | 4" | 2 1/2" | 600 | 80 | ENY21-NRB2 50x200B+MXV200/65 | 1570 | 175 | 1 1/4" | 490 | e |
| ENY20-NRB2 50x200A | 1260 | 1100 | 1000 | 320 | 1450 | 4" | 2 1/2" | 600 | 80 | ENY21-NRB2 50x200A+MXV200/65 | 1570 | 175 | 1 1/4" | 490 | e |
| ENY20-NRB2 50x250D | 1260 | 1100 | 1045 | 340 | 1450 | 4" | 2 1/2" | 600 | 80 | ENY21-NRB2 50x250D+MXV200/80 | 1570 | 175 | 1 1/4" | 490 | e |
| ENY20-NRB2 50x250C | 1260 | 1250 | 1045 | 340 | 1450 | 4" | 2 1/2" | 600 | 80 | ENY21-NRB2 50x250C+MXV200/80 | 1570 | 175 | 1 1/4" | 490 | e |
| ENY20-NRB2 50x250B | 1260 | 1250 | 1045 | 340 | 1450 | 4" | 2 1/2" | 600 | 80 | ENY21-NRB2 50x250B+MXV200/110 | 1570 | 175 | 1 1/4" | 490 | e |
| ENY20-NRB2 50x250A | 1260 | 1400 | 1105 | 400 | 1470 | 4" | 2 1/2" | 600 | 100 | ENY21-NRB2 50x250A+MXV200/110 | 1570 | 195 | 1 1/4" | 490 | e |
| ENY20-NRB2 65x160B | 1260 | 1100 | 1245 | 320 | 1450 | 5" | 3" | 600 | 80 | ENY21-NRB2 65x160B+MXV200/52 | 1570 | 175 | 1 1/4" | 490 | g |
| ENY20-NRB2 65x160A | 1260 | 1100 | 1245 | 320 | 1450 | 5" | 3" | 600 | 80 | ENY21-NRB2 65x160A+MXV200/65 | 1570 | 175 | 1 1/4" | 490 | g |
| ENY20-NRB2 65x200C | 1260 | 1250 | 1290 | 340 | 1450 | 5" | 3" | 600 | 80 | ENY21-NRB2 65x200C+MXV200/52 | 1570 | 175 | 1 1/4" | 490 | g |
| ENY20-NRB2 65x200B | 1260 | 1250 | 1290 | 340 | 1450 | 5" | 3" | 600 | 80 | ENY21-NRB2 65x200B+MXV200/65 | 1570 | 175 | 1 1/4" | 490 | g |
| ENY20-NRB2 65x200A | 1260 | 1400 | 1350 | 400 | 1610 | 5" | 3" | 600 | 100 | ENY21-NRB2 65x200A+MXV200/65 | 1570 | 195 | 1 1/4" | 490 | g |
| ENY20-NRB2 65x250C | 1260 | 1400 | 1375 | 400 | 1610 | 5" | 3" | 600 | 100 | ENY21-NRB2 65x250C+MXV200/80 | 1600 | 195 | 1 1/4" | 490 | g |
| ENY20-NRB2 65x250B | 1260 | 1400 | 1375 | 400 | 1700 | 5" | 3" | 600 | 100 | ENY21-NRB2 65x250B+MXV200/110 | 1600 | 195 | 1 1/4" | 490 | g |
| ENY20-NRB2 65x250A | 1260 | 1400 | 1400 | 425 | 1700 | 5" | 3" | 600 | 100 | ENY21-NRB2 65x250A+MXV200/110 | 1600 | 195 | 1 1/4" | 490 | g |
| ENY20-NRB2 80x160A | 1480 | 1250 | 1480 | 360 | 1470 | 8" | 4" | 700 | 100 | ENY21-NRB2 80x160A+MXV200/65 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 80x200C | 1480 | 1250 | 1505 | 360 | 1470 | 8" | 4" | 700 | 100 | ENY21-NRB2 80x200C+MXV200/52 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 80x200B | 1480 | 1400 | 1545 | 400 | 1610 | 8" | 4" | 700 | 100 | ENY21-NRB2 80x200B+MXV200/65 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 80x200A | 1480 | 1400 | 1545 | 400 | 1610 | 8" | 4" | 700 | 100 | ENY21-NRB2 80x200A+MXV200/65 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 80x250D | 1480 | 1400 | 1575 | 400 | 1610 | 8" | 4" | 700 | 100 | ENY21-NRB2 80x250D+MXV200/80 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 80x250C | 1480 | 1400 | 1600 | 425 | 1700 | 8" | 4" | 700 | 100 | ENY21-NRB2 80x250C+MXV200/80 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 80x250B | 1480 | 1650 | 1625 | 450 | 1800 | 8" | 4" | 700 | 100 | ENY21-NRB2 80x250B+MXV200/110 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 80x250A | 1480 | 1650 | 1625 | 450 | 1800 | 8" | 4" | 700 | 100 | ENY21-NRB2 80x250A+MXV200/110 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 100x200D | 1480 | 1250 | 1720 | 380 | 1470 | 10" | 5" | 700 | 100 | ENY21-NRB2 100x200D+MXV200/52 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 100x200C | 1480 | 1400 | 1740 | 400 | 1680 | 10" | 5" | 700 | 100 | ENY21-NRB2 100x200C+MXV200/52 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 100x200B | 1480 | 1400 | 1740 | 400 | 1680 | 10" | 5" | 700 | 100 | ENY21-NRB2 100x200B+MXV200/65 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 100x200A | 1480 | 1400 | 1765 | 425 | 1680 | 10" | 5" | 700 | 100 | ENY21-NRB2 100x200A+MXV200/65 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 100x250D | 1480 | 1400 | 1765 | 425 | 1680 | 10" | 5" | 700 | 100 | ENY21-NRB2 100x250D+MXV200/80 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 100x250C | 1480 | 1650 | 1790 | 450 | 1800 | 10" | 5" | 700 | 100 | ENY21-NRB2 100x250C+MXV200/80 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 100x250B | 1480 | 1650 | 1815 | 475 | 1800 | 10" | 5" | 700 | 100 | ENY21-NRB2 100x250B+MXV200/110 | 1800 | 195 | 1 1/4" | 490 | i |
| ENY20-NRB2 100x250A | 1480 | 1650 | 1815 | 475 | 1800 | 10" | 5" | 700 | 100 | ENY21-NRB2 100x250A+MXV200/110 | 1800 | 195 | 1 1/4" | 490 | i |

Rif/Ref. Asam: v. accessori / see accessories

EN.30-NRB2 / EN.31-NRB2+MXV

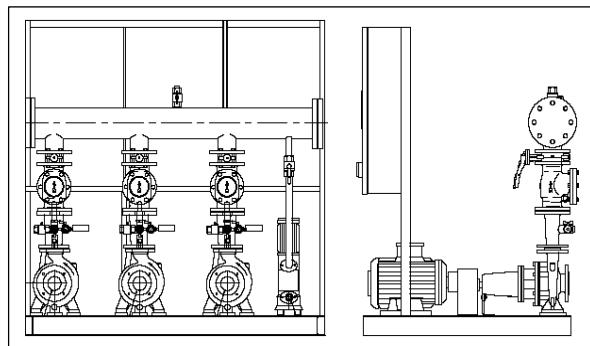
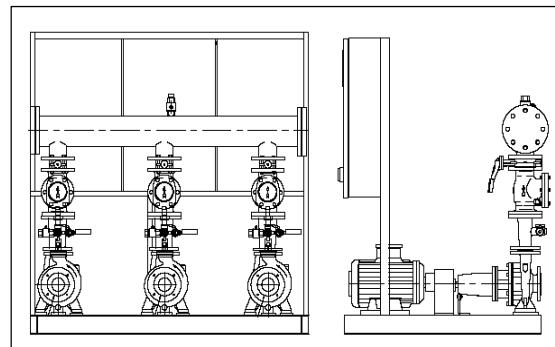
Gruppi di pressione antincendio con tre elettropompe principali e pilota opzionale
Fire-fighting pressure unit with three main electric pumps and optional pilot

APPLICAZIONI

Alimentazioni d'impianti antincendio per sprinkler (EN12845)
 Alimentazioni d'impianti antincendio per idranti (UNI10779)

APPLICATION

Supply fire-fighting systems with sprinklers (EN12845)
 Supply fire-fighting systems with hydrants (UNI10779)

EN.30-NRB2

EN.31-NRB2+MXV
DATI TECNICI - TECHNICAL DATA

| Composizione gruppo di pressione <i>Pressure unit composition</i> | Motopompa <i>Motor pump</i> | Elettropompa principale <i>Main electric pump</i> | Elettropompa pilota <i>Pilot electric pump</i> |
|----------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| | - | n.3 | n.1 |
| Avviamento: <i>Start-up:</i> | - | <7,5kw Diretto direct > 7,5Kw Stella/triangolo Star/delta | Diretto direct |
| Alimentazione: <i>Power supply:</i> | - | 3x400V | 3x400V |
| Frequenza: <i>Frequency:</i> | | 50Hz | |
| Grado di protezione: <i>Level of protection:</i> | | IP 54 quadro elettrico - <i>IP 54 electric panel</i> IP 55 pompa - <i>IP 55 pump</i> IP 44 elettropompa pilota (opzionale) - <i>IP 44 pilot electric pump (optional)</i> | |
| Pressione max <i>Max pressure</i> | | 16 Bar | |
| Prestazioni idrauliche <i>Hydraulic performances</i> | Idoneo per alimentazione <i>Suitable for water supply</i> | Qmax | Hmax |
| | - Singola - single | 660 m ³ /h | 10 bar |

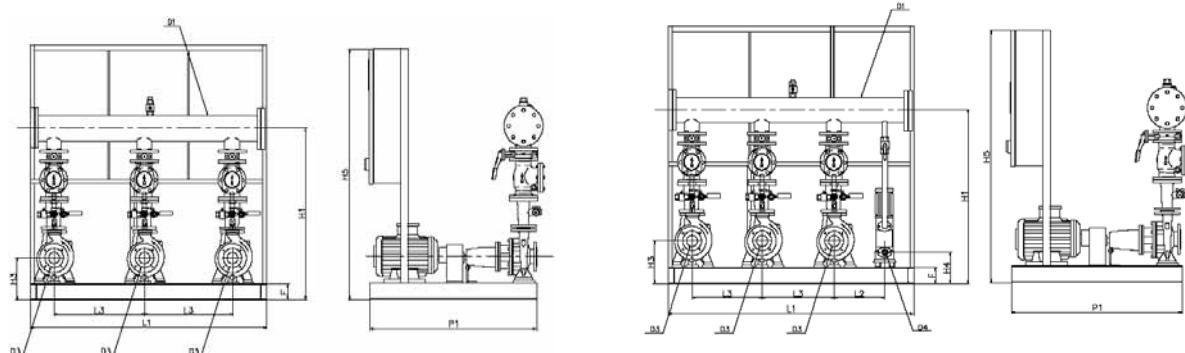
GRUPPI DI PRESSIONE ANTINCENDIO EN12845 - EN.30-NRB2 / EN.31-NRB2+MXV
FIRE-FIGHTING PRESSURE UNITS EN12845 - EN.30-NRB2 / EN.31-NRB2+MXV

TABELLE DELLE PRESTAZIONI IDRAULICHE⁽¹⁾
TABLE OF HYDRAULIC PERFORMANCES⁽¹⁾

| Mod | I/1' | 0 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | | | | | | |
|----------|---------------|------|-------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|
| | mc/h | 0 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | | | | | | |
| 32x160A | m.c.a. m.w.c. | 38,6 | 38 | 36,5 | 35 | 32,5 | 30 | 26,5 | | | | | | | | |
| 32x200C | | 48,7 | 47,5 | 46,5 | 44,5 | 42,5 | 39 | 35 | | | | | | | | |
| 32x200B | | 57 | 56 | 55 | 53,5 | 51,5 | 49,5 | 46 | 42 | 37 | | | | | | |
| 32x200A | | 62,2 | 61 | 60,5 | 59 | 57,5 | 55 | 52,5 | 49 | 45 | | | | | | |
| Mod | I/1' | 0 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | | |
| | mc/h | 0 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | | |
| 40x160A | m.c.a. m.w.c. | 38 | 37 | 36,5 | 35,5 | 34,5 | 33,5 | 32,5 | 31 | 29 | 26,5 | | | | | |
| 40x200C | | 46 | 43,5 | 43 | 42 | 40 | 38 | 36 | 33 | 29 | 24 | | | | | |
| 40x200B | | 54 | 52 | 51 | 50 | 49 | 47 | 45 | 43 | 40 | 37 | 33 | 28 | | | |
| 40x200A | | 59 | 57 | 56,5 | 55,5 | 54 | 53 | 51 | 49 | 47 | 44 | 41 | 37 | | | |
| 40x250C | | 74 | 73 | 72 | 71 | 70 | 67,5 | 65 | 62 | 57 | 51 | 44 | | | | |
| 40x250B | | 83,5 | 82,5 | 82 | 81 | 80 | 79 | 77 | 75 | 72 | 68 | 63 | 56 | | | |
| 40x250A | | 94 | 93 | 92,5 | 92 | 91 | 90 | 88 | 86 | 84 | 81 | 77 | 72 | 67 | | |
| Mod | I/1' | 0 | 800 | 900 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | | | |
| | mc/h | 0 | 48 | 54 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 | 156 | | | |
| 50x160A | m.c.a. m.w.c. | 37,4 | 37 | 36,5 | 36 | 35 | 34 | 32,5 | 31 | 29 | 26 | | | | | |
| 50x200C | | 48,2 | 47 | 46,5 | 45 | 43 | 40 | 36 | 31,5 | | | | | | | |
| 50x200B | | 53,5 | 52,5 | 52 | 51,5 | 49,5 | 46,5 | 43,5 | 39,5 | 35 | | | | | | |
| 50x200A | | 58,2 | 57,5 | 57 | 56,5 | 55 | 53 | 50 | 46,5 | 43 | | | | | | |
| 50x250D | | 72,5 | 71,25 | 70 | 69,5 | 67,5 | 65 | 61,5 | 57,5 | 51 | | | | | | |
| 50x250C | | 79 | 78 | 77 | 76,5 | 75 | 72,5 | 69,5 | 66 | 61,5 | 55,5 | | | | | |
| 50x250B | | 89,5 | 88,75 | 88 | 87,5 | 86 | 84 | 82 | 78,5 | 74,5 | 69 | | | | | |
| 50x250A | | 96 | 95,25 | 94,5 | 94 | 93 | 91,5 | 89,5 | 86,5 | 83,5 | 80 | 75,5 | 70 | | | |
| Mod | I/1' | 0 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 | 3600 | 4000 | 4500 | |
| | mc/h | 0 | 84 | 96 | 108 | 120 | 132 | 144 | 156 | 168 | 180 | 192 | 216 | 240 | 270 | |
| 65x160B | m.c.a. m.w.c. | 34,2 | 33,8 | 33 | 32,5 | 32 | 31,5 | 30,5 | 29,5 | 28,5 | 27 | 25,5 | 22,5 | | | |
| 65x160A | | 41,5 | 40,8 | 40 | 39,5 | 39 | 38,5 | 38 | 37,5 | 36,5 | 35,5 | 34,5 | 32 | 29 | | |
| 65x200C | | 52,2 | 51,6 | 51 | 50,6 | 50,4 | 50,2 | 50,1 | 49,7 | 48,6 | 47,5 | 46 | 43 | 39 | | |
| 65x200B | | 58 | 57,75 | 57,5 | 57 | 56,6 | 56,5 | 56,3 | 56 | 55,5 | 54,5 | 53,5 | 50,5 | 47,5 | 42,5 | |
| 65x200A | | 63 | 62,5 | 62 | 61,7 | 61,5 | 61,3 | 61,1 | 61 | 60,5 | 60 | 59 | 57,5 | 55 | 50 | |
| 65x250C | | 73,2 | 72,6 | 72 | 71,5 | 71 | 70 | 68,5 | 67 | 65 | 63,3 | 61,2 | 57 | | | |
| 65x250B | | 83 | 82,75 | 82,5 | 82 | 81,5 | 80,5 | 79,5 | 78,5 | 77 | 75,5 | 74 | 70 | 65,5 | 59,5 | |
| 65x250A | | 93 | 92,75 | 92,5 | 92 | 91,5 | 91 | 90 | 89 | 88 | 87 | 86 | 82 | 78 | 72,5 | |
| Mod | I/1' | 0 | 2400 | 2600 | 2800 | 3000 | 3200 | 3600 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 8000 |
| | mc/h | 0 | 144 | 156 | 168 | 180 | 192 | 216 | 240 | 270 | 300 | 330 | 360 | 390 | 420 | 480 |
| 80x160A | m.c.a. m.w.c. | 39,2 | 38 | 37,8 | 37,6 | 37,2 | 36,8 | 36,5 | 35,5 | 34,5 | 33 | 31,5 | 29 | 27 | | |
| 80x200C | | 46,5 | 44,6 | 44,5 | 44 | 43,5 | 43 | 42 | 40,5 | 38,5 | 36,5 | 33,5 | 31 | | | |
| 80x200B | | 54 | 53 | 52,5 | 52 | 51,5 | 51 | 50,5 | 49,5 | 48 | 46 | 44 | 41,5 | 38,5 | | |
| 80x200A | | 59 | 58,5 | 58 | 57,5 | 57 | 56,5 | 56 | 55,5 | 54 | 52,5 | 50,5 | 48,5 | 46 | 43,5 | |
| 80x250D | | 70 | 69,5 | 69,0 | 68,5 | 68 | 67,5 | 66,5 | 65 | 62,5 | 60 | 56 | 51 | | | |
| 80x250C | | 76 | 76,1 | 75,6 | 75,1 | 74,6 | 74,5 | 73,5 | 72,5 | 70,5 | 68 | 65 | 61,5 | 57,5 | 53 | |
| 80x250B | | 85,5 | 85,5 | 85,0 | 84,5 | 84 | 83,5 | 83 | 82 | 81 | 78,5 | 76 | 73,5 | 70 | 66 | |
| 80x250A | | 92 | 92,0 | 91,5 | 91,0 | 90,5 | 90 | 89,5 | 89 | 87,5 | 86 | 84 | 81,5 | 78,5 | 75 | 66 |
| Mod | I/1' | 0 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 8000 | 9000 | 10000 | 11000 | | | |
| | mc/h | 0 | 240 | 270 | 300 | 330 | 360 | 390 | 420 | 480 | 540 | 600 | 660 | | | |
| 100X200D | m.c.a. m.w.c. | 39,5 | 37,5 | 36,5 | 35 | 33,5 | 31,5 | 29 | 27 | 20,5 | | | | | | |
| 100X200C | | 46,8 | 45 | 44,5 | 43,5 | 42,5 | 41 | 39,5 | 37,5 | 33 | 27 | | | | | |
| 100X200B | | 51,8 | 50,5 | 50 | 49,5 | 48,5 | 47,5 | 46,5 | 45 | 41,5 | 36,5 | 31 | | | | |
| 100X200A | | 56,5 | 55,5 | 55 | 54,5 | 54 | 53 | 52 | 51 | 48 | 43,5 | 38 | | | | |
| 100X250D | | 68 | 66,5 | 66 | 65 | 63,5 | 61,5 | 58,5 | 56 | 49,5 | | | | | | |
| 100X250C | | 74 | 73 | 72,5 | 72 | 71 | 69,5 | 68 | 66 | 61 | 53,5 | | | | | |
| 100X250B | | 84,2 | 83 | 82,8 | 82,5 | 82 | 81 | 79,5 | 78 | 74 | 70 | 63 | 55 | | | |
| 100X250A | | 90,5 | 89,5 | 89,3 | 89 | 88,2 | 87,5 | 86,5 | 85,5 | 82,5 | 78 | 73 | 65 | | | |

⁽¹⁾ prestazioni relative a due pompe in funzione idonee per alimentazione tipo singola

⁽¹⁾ with two running pumps suitable for a single water supply

MISURE D'INGOMBRO: EN.30-NRB2 / EN.31-NRB2+MXV
OVERALL DIMENSIONS: EN.30-NRB2 / EN.31-NRB2+MXV


| Mod | Dimens. mm | | | | | | | | Modello con pompa pilota Model with pilot pump | Dimens. mm | | | | Rif/Ref Asam | |
|---------------------|------------|------|------|-----|------|-----|-------|-----|---------------------------------------------------|--------------------------------|------|-----|-------|-----------------|---|
| | L1 | P1 | H1 | H3 | H5 | D1 | D3 | L3 | F | L1 | H4 | D4 | L2 | | |
| END30-NRB2 32x160A | 1720 | 1100 | 862 | 292 | 1260 | 3" | 2" | 550 | 80 | END31-NRB2 32x160A+MXV200/65 | 2050 | 175 | 1"1/4 | 440 | b |
| END30-NRB2 32x200C | 1720 | 1100 | 910 | 320 | 1260 | 3" | 2" | 550 | 80 | END31-NRB2 32x200C+MXV200/52 | 2050 | 175 | 1"1/4 | 440 | b |
| END30-NRB2 32x200B | 1720 | 1100 | 910 | 320 | 1260 | 3" | 2" | 550 | 80 | END31-NRB2 32x200B+MXV200/65 | 2050 | 175 | 1"1/4 | 440 | b |
| END30-NRB2 32x200A | 1720 | 1100 | 910 | 320 | 1260 | 3" | 2" | 550 | 80 | END31-NRB2 32x200A+MXV200/65 | 2050 | 175 | 1"1/4 | 440 | b |
| END30-NRB2 40x160A | 1720 | 1100 | 872 | 292 | 1260 | 4" | 2"1/2 | 550 | 80 | END31-NRB2 40x160A+MXV200/65 | 2050 | 175 | 1"1/4 | 440 | d |
| END30-NRB2 40x200C | 1720 | 1100 | 920 | 320 | 1260 | 4" | 2"1/2 | 550 | 80 | END31-NRB2 40x200C+MXV200/52 | 2050 | 175 | 1"1/4 | 440 | d |
| END30-NRB2 40x200B | 1720 | 1100 | 920 | 320 | 1260 | 4" | 2"1/2 | 550 | 80 | END31-NRB2 40x200B+MXV200/65 | 2050 | 175 | 1"1/4 | 440 | d |
| ENY30-NRB2 40x200A | 1720 | 1100 | 920 | 320 | 1450 | 4" | 2"1/2 | 550 | 80 | ENY31-NRB2 40x200A+MXV200/65 | 2050 | 175 | 1"1/4 | 440 | d |
| ENY30-NRB2 40x250C | 1720 | 1100 | 985 | 340 | 1450 | 4" | 2"1/2 | 550 | 80 | ENY31-NRB2 40x250C+MXV200/80 | 2050 | 175 | 1"1/4 | 440 | d |
| ENY30-NRB2 40x250B | 1720 | 1100 | 985 | 340 | 1450 | 4" | 2"1/2 | 550 | 80 | ENY31-NRB2 40x250B+MXV200/90 | 2050 | 175 | 1"1/4 | 440 | d |
| ENY30-NRB2 40x250A | 1720 | 1250 | 985 | 340 | 1450 | 4" | 2"1/2 | 550 | 80 | ENY31-NRB2 40x250A+MXV200/110 | 2050 | 175 | 1"1/4 | 440 | d |
| END30-NRB2 50x160A | 1860 | 1100 | 980 | 320 | 1280 | 5" | 2"1/2 | 600 | 80 | END31-NRB2 50x160A+MXV200/65 | 2170 | 175 | 1"1/4 | 490 | f |
| END30-NRB2 50x200C | 1860 | 1100 | 1000 | 320 | 1280 | 5" | 2"1/2 | 600 | 80 | END31-NRB2 50x200C+MXV200/52 | 2170 | 175 | 1"1/4 | 490 | f |
| ENY30-NRB2 50x200B | 1860 | 1100 | 1000 | 320 | 1450 | 5" | 2"1/2 | 600 | 80 | ENY31-NRB2 50x200B+MXV200/65 | 2170 | 175 | 1"1/4 | 490 | f |
| ENY30-NRB2 50x200A | 1860 | 1100 | 1000 | 320 | 1450 | 5" | 2"1/2 | 600 | 80 | ENY31-NRB2 50x200A+MXV200/65 | 2170 | 175 | 1"1/4 | 490 | f |
| ENY30-NRB2 50x250D | 1860 | 1100 | 1045 | 340 | 1450 | 5" | 2"1/2 | 600 | 80 | ENY31-NRB2 50x250D+MXV200/80 | 2170 | 175 | 1"1/4 | 490 | f |
| ENY30-NRB2 50x250C | 1860 | 1250 | 1065 | 360 | 1470 | 5" | 2"1/2 | 600 | 100 | ENY31-NRB2 50x250C+MXV200/80 | 2170 | 195 | 1"1/4 | 490 | f |
| ENY30-NRB2 50x250B | 1860 | 1250 | 1065 | 360 | 1470 | 5" | 2"1/2 | 600 | 100 | ENY31-NRB2 50x250B+MXV200/110 | 2170 | 195 | 1"1/4 | 490 | f |
| ENY30-NRB2 50x250A | 1860 | 1400 | 1105 | 400 | 1470 | 5" | 2"1/2 | 600 | 100 | ENY31-NRB2 50x250A+MXV200/110 | 2170 | 195 | 1"1/4 | 490 | f |
| ENY30-NRB2 65x160B | 1860 | 1100 | 1245 | 320 | 1450 | 8" | 3" | 600 | 80 | ENY31-NRB2 65x160B+MXV200/52 | 2200 | 175 | 1"1/4 | 490 | h |
| ENY30-NRB2 65x160A | 1860 | 1100 | 1245 | 320 | 1450 | 8" | 3" | 600 | 80 | ENY31-NRB2 65x160A+MXV200/65 | 2200 | 175 | 1"1/4 | 490 | h |
| ENY30-NRB2 65x200C | 1860 | 1250 | 1310 | 360 | 1470 | 8" | 3" | 600 | 100 | ENY31-NRB2 65x200C+MXV200/52 | 2200 | 195 | 1"1/4 | 490 | h |
| ENY30-NRB2 65x200B | 1860 | 1250 | 1310 | 360 | 1470 | 8" | 3" | 600 | 100 | ENY31-NRB2 65x200B+MXV200/65 | 2200 | 195 | 1"1/4 | 490 | h |
| ENY30-NRB2 65x200A | 1860 | 1400 | 1350 | 400 | 1610 | 8" | 3" | 600 | 100 | ENY31-NRB2 65x200A+MXV200/65 | 2200 | 195 | 1"1/4 | 490 | h |
| ENY30-NRB2 65x250C | 1860 | 1400 | 1375 | 400 | 1610 | 8" | 3" | 600 | 100 | ENY31-NRB2 65x250C+MXV200/80 | 2200 | 195 | 1"1/4 | 490 | h |
| ENY30-NRB2 65x250B | 1860 | 1400 | 1375 | 400 | 1700 | 8" | 3 | 600 | 100 | ENY31-NRB2 65x250B+MXV200/110 | 2200 | 195 | 1"1/4 | 490 | h |
| ENY30-NRB2 65x250A | 1860 | 1400 | 1400 | 425 | 1700 | 8" | 3" | 600 | 100 | ENY31-NRB2 65x250A+MXV200/110 | 2200 | 195 | 1"1/4 | 490 | h |
| ENY30-NRB2 80x160A | 2190 | 1250 | 1480 | 360 | 1470 | 10" | 4" | 700 | 100 | ENY31-NRB2 80x160A+MXV200/65 | 2500 | 195 | 1"1/4 | 490 | m |
| ENY30-NRB2 80x200C | 2190 | 1250 | 1505 | 360 | 1470 | 10" | 4" | 700 | 100 | ENY31-NRB2 80x200C+MXV200/52 | 2500 | 195 | 1"1/4 | 490 | m |
| ENY30-NRB2 80x200B | 2190 | 1400 | 1545 | 400 | 1610 | 10" | 4" | 700 | 100 | ENY31-NRB2 80x200B+MXV200/65 | 2500 | 195 | 1"1/4 | 490 | m |
| ENY30-NRB2 80x200A | 2190 | 1400 | 1545 | 400 | 1610 | 10" | 4" | 700 | 100 | ENY31-NRB2 80x200A+MXV200/65 | 2500 | 195 | 1"1/4 | 490 | m |
| ENY30-NRB2 80x250D | 2190 | 1400 | 1575 | 400 | 1610 | 10" | 4" | 700 | 100 | ENY31-NRB2 80x250D+MXV200/80 | 2500 | 195 | 1"1/4 | 490 | m |
| ENY30-NRB2 80x250C | 2190 | 1400 | 1600 | 425 | 1700 | 10" | 4" | 700 | 100 | ENY31-NRB2 80x250C+MXV200/80 | 2500 | 195 | 1"1/4 | 490 | m |
| ENY30-NRB2 80x250B | 2190 | 1650 | 1645 | 470 | 1820 | 10" | 4" | 700 | 120 | ENY31-NRB2 80x250B+MXV200/110 | 2500 | 215 | 1"1/4 | 490 | m |
| ENY30-NRB2 80x250A | 2190 | 1650 | 1645 | 470 | 1820 | 10" | 4" | 700 | 120 | ENY31-NRB2 80x250A+MXV200/110 | 2500 | 215 | 1"1/4 | 490 | m |
| ENY30-NRB2 100x200D | 2190 | 1250 | 1740 | 400 | 1490 | 12" | 5" | 700 | 120 | ENY31-NRB2 100x200D+MXV200/52 | 2500 | 215 | 1"1/4 | 490 | n |
| ENY30-NRB2 100x200C | 2190 | 1400 | 1760 | 420 | 1700 | 12" | 5" | 700 | 120 | ENY31-NRB2 100x200C+MXV200/52 | 2500 | 215 | 1"1/4 | 490 | n |
| ENY30-NRB2 100x200B | 2190 | 1400 | 1760 | 420 | 1700 | 12" | 5" | 700 | 120 | ENY31-NRB2 100x200B+MXV200/65 | 2500 | 215 | 1"1/4 | 490 | n |
| ENY30-NRB2 100x200A | 2190 | 1400 | 1785 | 445 | 1700 | 12" | 5" | 700 | 120 | ENY31-NRB2 100x200A+MXV200/65 | 2500 | 215 | 1"1/4 | 490 | n |
| ENY30-NRB2 100x250D | 2190 | 1400 | 1785 | 445 | 1700 | 12" | 5" | 700 | 120 | ENY31-NRB2 100x250D+MXV200/80 | 2500 | 215 | 1"1/4 | 490 | n |
| ENY30-NRB2 100x250C | 2190 | 1650 | 1850 | 510 | 1860 | 12" | 5" | 700 | 160 | ENY31-NRB2 100x250C+MXV200/80 | 2500 | 255 | 1"1/4 | 490 | n |
| ENY30-NRB2 100x250B | 2190 | 1650 | 1875 | 535 | 1860 | 12" | 5" | 700 | 160 | ENY31-NRB2 100x250B+MXV200/110 | 2500 | 255 | 1"1/4 | 490 | n |
| ENY30-NRB2 100x250A | 2190 | 1650 | 1875 | 535 | 1860 | 12" | 5" | 700 | 160 | ENY31-NRB2 100x250A+MXV200/110 | 2500 | 255 | 1"1/4 | 490 | n |

Rif/Ref. Asam: v. accessori / see accessories

TABELLA DELLE PRESTAZIONI ELETTROPOMPA PILOTA
PILOT ELECTRIC PUMP PERFORMANCE TABLE

| Mod | I/min | 10 | 20 | 30 | 40 | 50 |
|-----------|---------------|-----|-----|-----|-----|----|
| | m3/h | 0,6 | 1,2 | 1,8 | 2,4 | 3 |
| VLR2B/40 | m.c.a. m.w.c. | 36 | 34 | 31 | 26 | 20 |
| VLR2B/50 | | 45 | 43 | 39 | 33 | 25 |
| VLR2B/60 | | 54 | 51 | 46 | 39 | 30 |
| VLR2B/70 | | 64 | 60 | 54 | 46 | 35 |
| VLR2B/90 | | 82 | 77 | 70 | 59 | 45 |
| VLR2B/110 | | 100 | 94 | 85 | 72 | 55 |
| VLR2B/130 | | 118 | 111 | 101 | 85 | 65 |

TABELLA DELLE PRESTAZIONI POMPA PRINCIPALE ASSE VERTICALE

Alimentazioni relative ad una pompa in funzione idonea per alimentazione; singola, doppia e superiore

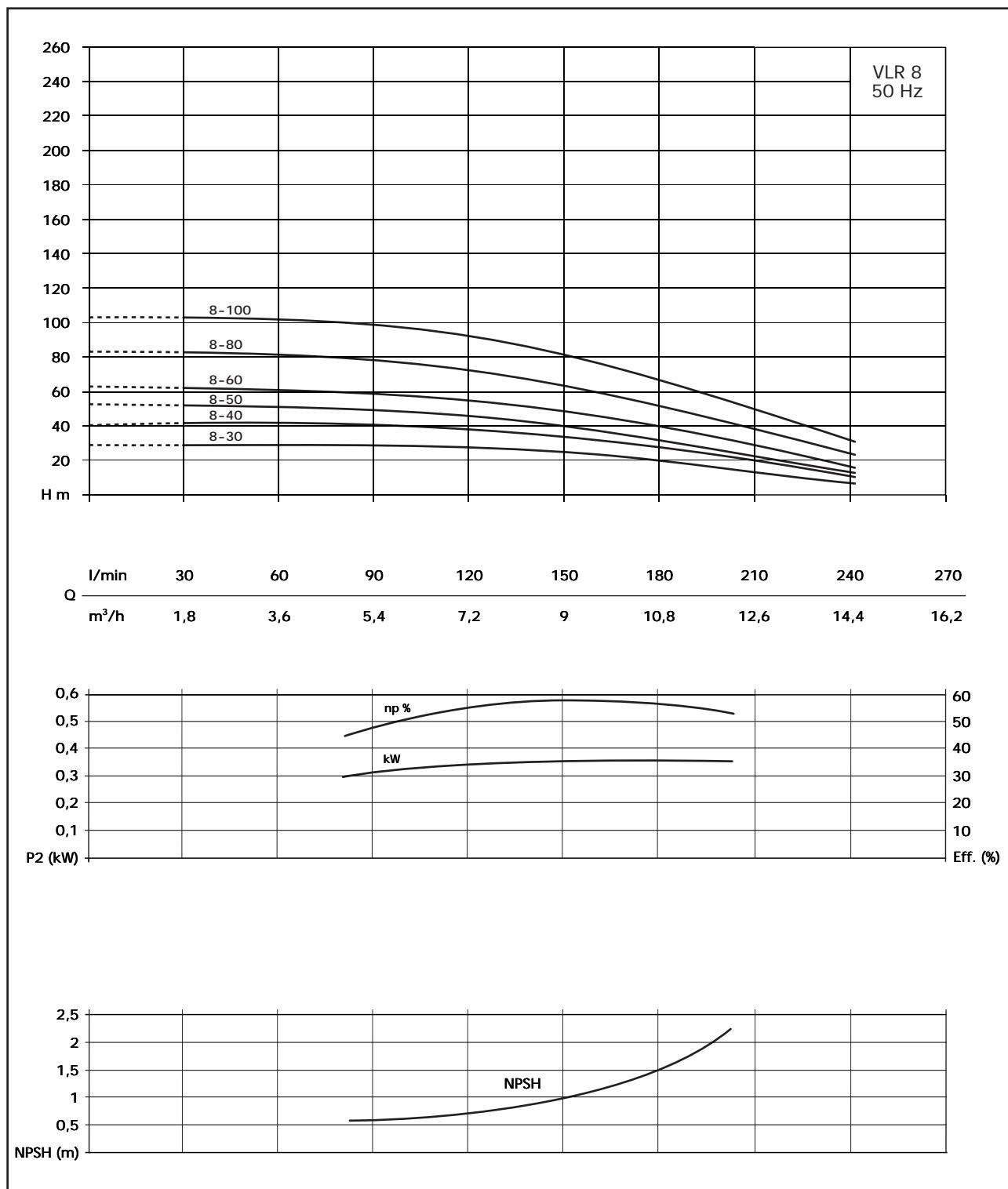
VERTICAL AXIS MAIN PUMP PERFORMANCE TABLE

Supply for running pump suitable for single, double and superior water supplies

| Mod | I/min | 50 | 100 | 150 | 175 | 200 | | |
|----------|---------------|------|------|------|------|------|------|-------|
| | m3/h | 3 | 6 | 9 | 10,5 | 12 | | |
| VLR8/30 | m.c.a. m.w.c. | 31 | 29 | 24 | 21 | 16 | | |
| VLR8/40 | | 41 | 38 | 32 | 27 | 22 | | |
| VLR8/50 | | 52 | 48 | 40 | 34 | 27 | | |
| VLR8/60 | | 62 | 58 | 48 | 41 | 33 | | |
| VLR8/80 | | 82 | 77 | 64 | 55 | 44 | | |
| VLR8/100 | | 103 | 96 | 80 | 69 | 55 | | |
| Mod | I/min | 100 | 200 | 250 | 300 | 350 | | |
| | m3/h | 6 | 12 | 15 | 18 | 21 | | |
| VLR16/30 | m.c.a. m.w.c. | 39 | 37 | 34 | 30 | 24 | | |
| VLR16/40 | | 52 | 49 | 46 | 40 | 32 | | |
| VLR16/50 | | 65 | 62 | 57 | 51 | 40 | | |
| VLR16/60 | | 78 | 74 | 69 | 61 | 47 | | |
| VLR16/70 | | 91 | 86 | 80 | 71 | 55 | | |
| Mod | I/min | 200 | 400 | 500 | 600 | 700 | | |
| | m3/h | 12 | 24 | 30 | 36 | 42 | | |
| VLR32-2 | m.c.a. m.w.c. | 35 | 31 | 72 | 22 | 41 | | |
| VLR32-3 | | 53 | 47 | 14 | 33 | 27 | | |
| VLR32-4 | | 71 | 63 | 55 | 44 | 72 | | |
| VLR32-5 | | 89 | 79 | 96 | 55 | 43 | | |
| Mod | I/min | 500 | 600 | 800 | 1000 | 1200 | 1300 | 1417 |
| | m3/h | 30 | 36 | 48 | 60 | 72 | 78 | 85,02 |
| VLR66-20 | m.c.a. m.w.c. | 55,7 | 54,5 | 51,1 | 47,1 | 42 | 38,9 | 34,7 |
| VLR66-30 | | 84,7 | 83 | 77,7 | 72 | 64 | 60 | 53,5 |
| VLR66-40 | | 113 | 110 | 103 | 96 | 86 | 79 | 70,8 |

CURVA DELLE PRESTAZIONI IDRAULICHE

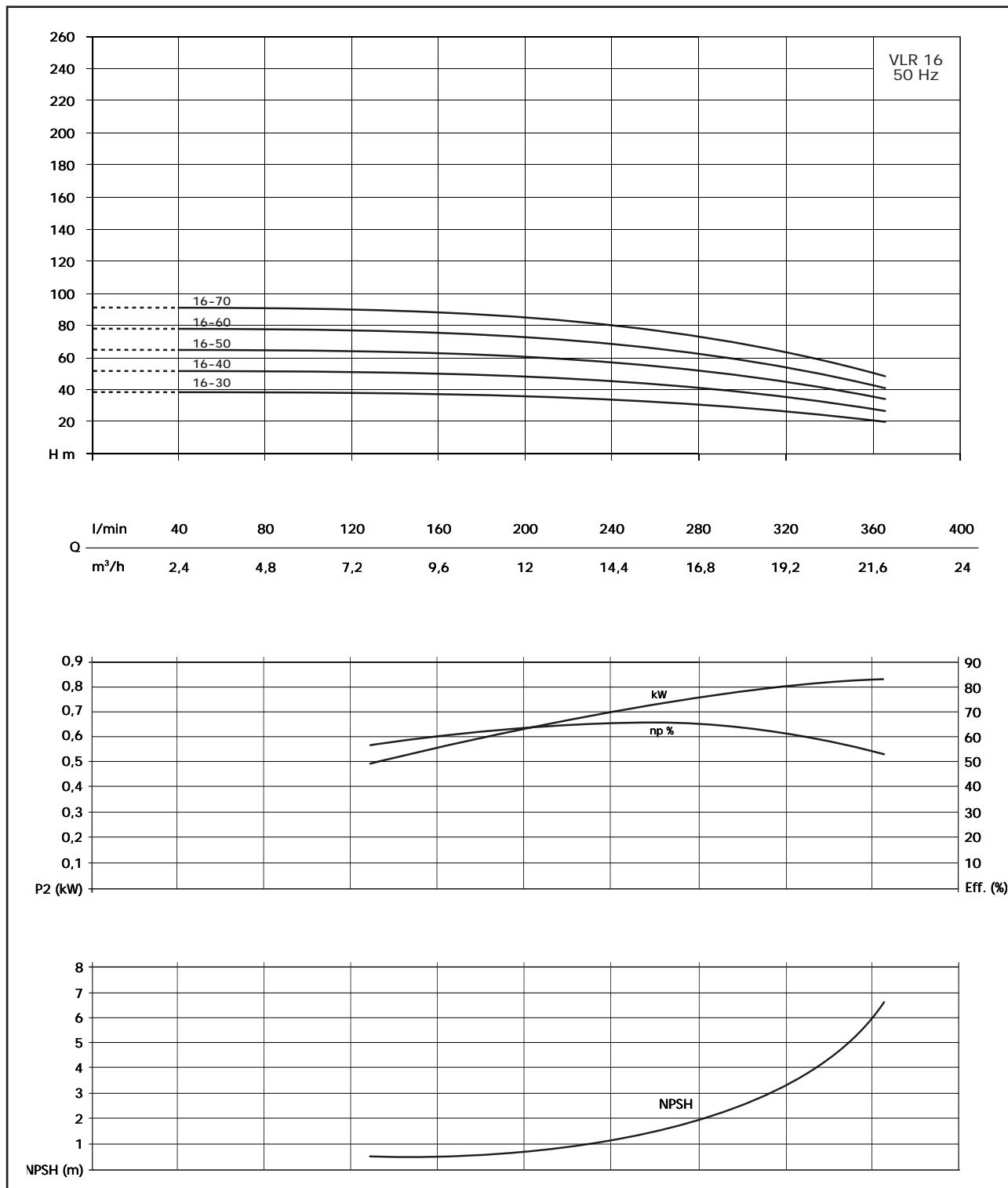
TABLE OF HYDRAULIC PERFORMANCE



- Curve valide per velocità di rotazione di 2900 giri / 1' (50 Hz)
- Prestazioni conformi alla norma UNI EN ISO 9906
- Valori di prevalenza e NPSH validi per acqua con densità $\rho = 1,0 \text{ Kg} / \text{dm}^3$ a 20°C
- La curva di potenza (Kw) si riferisce alla potenza all'albero per stadio.
- $\eta_p \%$ indica il rendimento idraulico della pompa.

- Speed of rotation 2900 rpm
- Performance in accordance with UNI EN ISO 9906 standard
- Head and NPSH valid for water with $\rho=1,0 \text{ Kg} / \text{dm}^3$ at 20°C density
- The power curve (Kw) refers to the shaft power each stage
- $\eta_p \%$ refers to the pump hydraulic performance

CURVA DELLE PRESTAZIONI IDRAULICHE TABLE OF HYDRAULIC PERFORMANCE

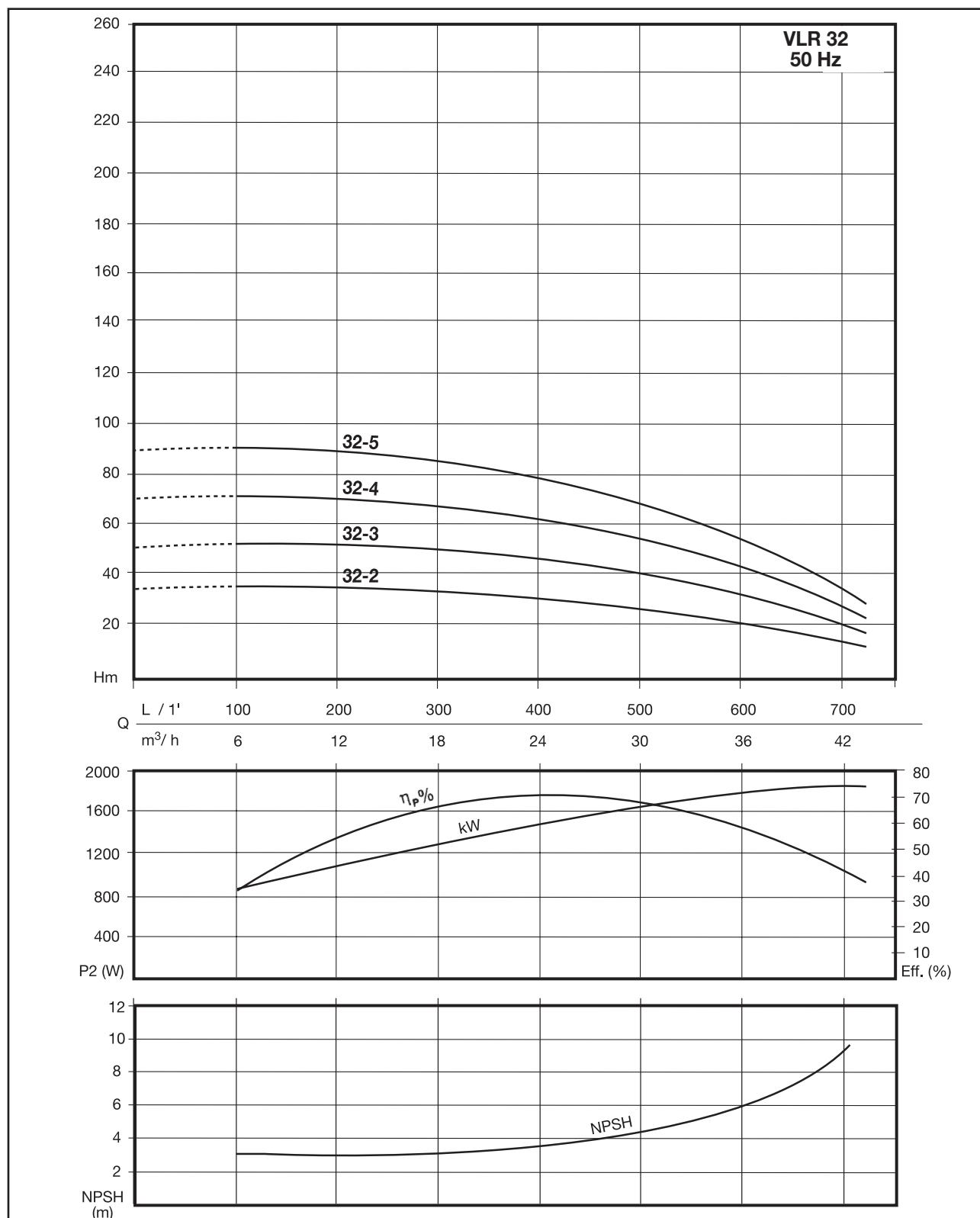


- Curve valide per velocità di rotazione di 2900 giri / 1' (50 Hz)
- Prestazioni conformi alla norma UNI EN ISO 9906
- Valori di prevalenza e NPSH validi per acqua con densità $\rho = 1,0 \text{ Kg} / \text{dm}^3$ a 20° C
- La curva di potenza (Kw) si riferisce alla potenza all'albero per stadio.
- $\eta_p \%$ indica il rendimento idraulico della pompa.

- Speed of rotation 2900 rpm
- Performance in accordance with UNI EN ISO 9906 standard
- Head and NPSH valid for water with $\rho=1,0 \text{ Kg} / \text{dm}^3$ at 20°C density
- The power curve (Kw) refers to the shaft power each stage
- $\eta_p \%$ refers to the pump hydraulic performance

CURVA DELLE PRESTAZIONI IDRAULICHE

TABLE OF HYDRAULIC PERFORMANCE

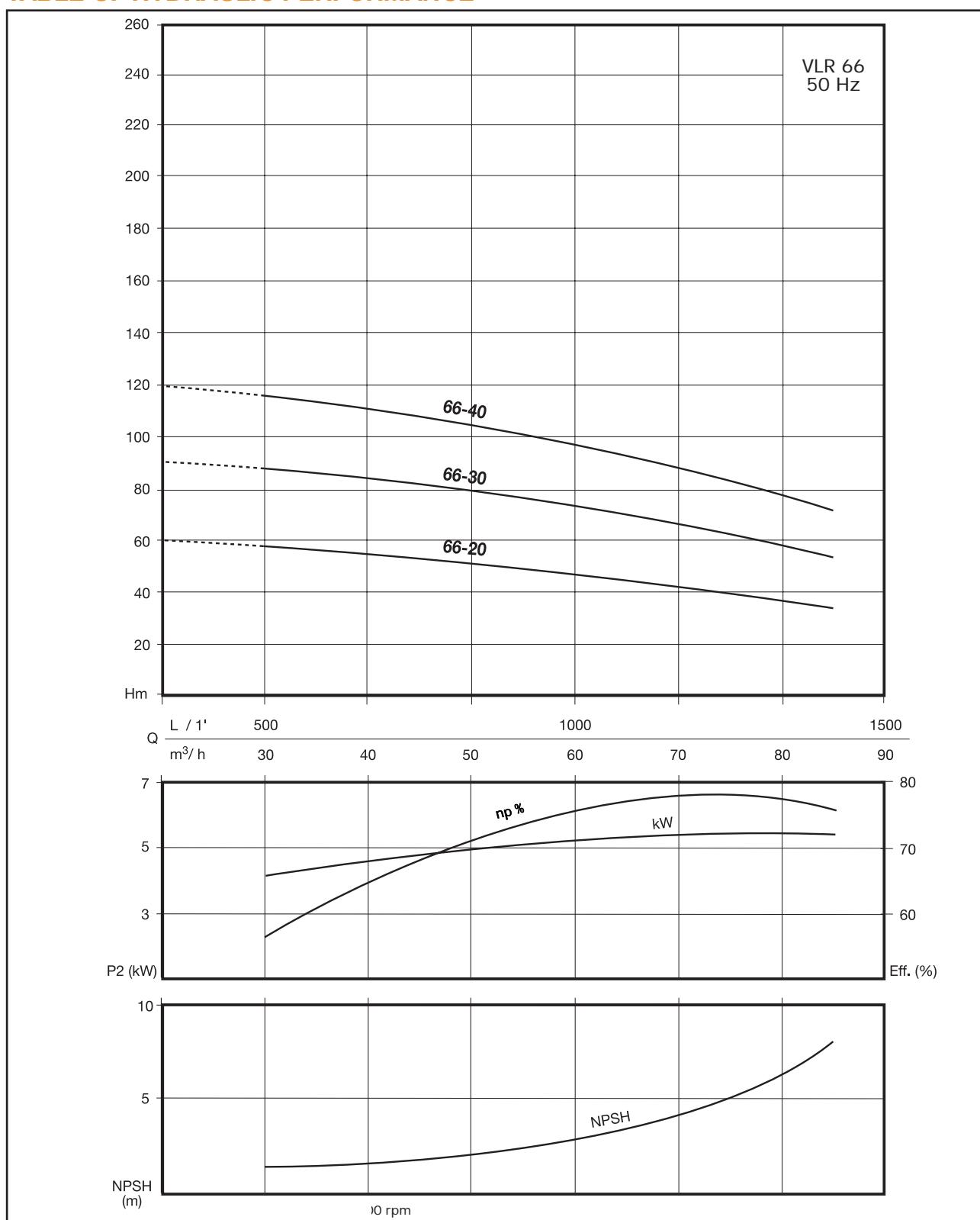


- Curve valide per velocità di rotazione di 2900 giri / 1' (50 Hz)
- Prestazioni conformi alla norma UNI EN ISO 9906
- Valori di prevalenza e NPSH validi per acqua con densità $\rho = 1,0 \text{ Kg} / \text{dm}^3$ a 20° C
- La curva di potenza (Kw) si riferisce alla potenza all'albero per stadio.
- $\eta_p\%$ indica il rendimento idraulico della pompa.

- Speed of rotation 2900 rpm
- Performance in accordance with UNI EN ISO 9906 standard
- Head and NPSH valid for water with $\rho=1,0 \text{ Kg} / \text{dm}^3$ at 20°C density
- The power curve (Kw) refers to the shaft power each stage
- $\eta_p\%$ refers to the pump hydraulic performance

CURVA DELLE PRESTAZIONI IDRAULICHE

TABLE OF HYDRAULIC PERFORMANCE



- Curve valide per velocità di rotazione di 2900 giri / 1' (50 Hz)
- Prestazioni conformi alla norma UNI EN ISO 9906
- Valori di prevalenza e NPSH validi per acqua con densità $\rho = 1,0 \text{ Kg} / \text{dm}^3$ a 20°C
- La curva di potenza (K_w) si riferisce alla potenza all'albero per stadio.
- $\eta_p \%$ indica il rendimento idraulico della pompa.

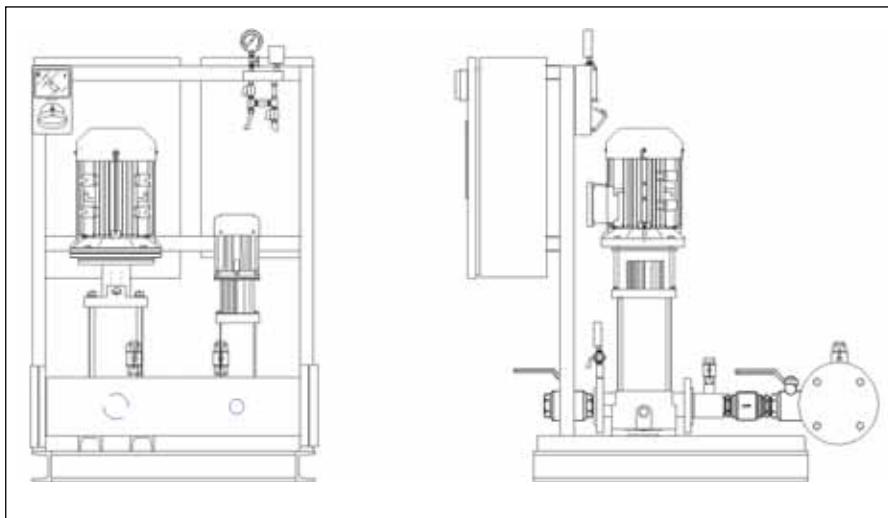
- Speed of rotation 2900 rpm
- Performance in accordance with UNI EN ISO 9906 standard
- Head and NPSH valid for water with $\rho=1,0 \text{ Kg} / \text{dm}^3$ at 20°C density
- The power curve (K_w) refers to the shaft power each stage
- $\eta_p \%$ refers to the pump hydraulic performance

EN.11-VLR
Gruppi di pressione antincendio con un'elettropompa principale e pilota opzionale
Fire-fighting pressure unit with a main electric pump and optional pilot
APPLICAZIONI

Alimentazioni d'impianti antincendio per sprinkler (EN12845)
 Alimentazioni d'impianti antincendio per idranti (UNI10779)

APPLICATION

Supply fire-fighting systems with sprinklers (EN12845)
 Supply fire-fighting systems with hydrants (UNI10779)


EN.11-VLR
DATI TECNICI - TECHNICAL DATA

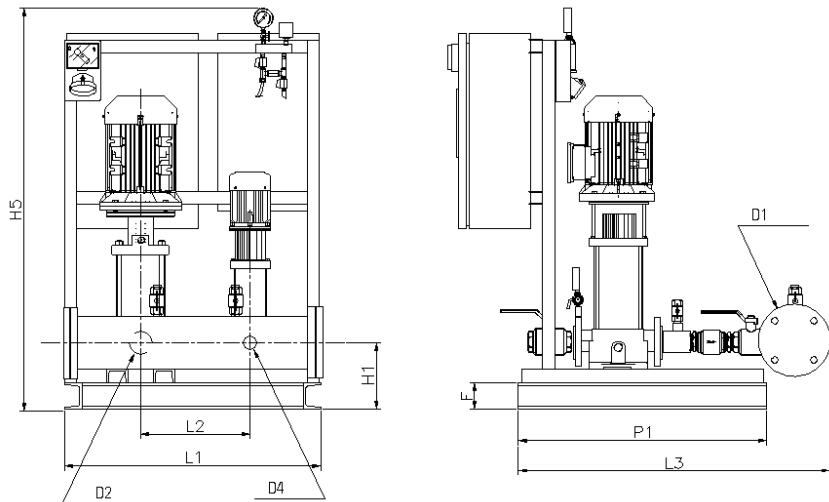
| Composizione gruppo di pressione <i>Pressure unit composition</i> | Motopompa - <i>Motor pump</i> | Elettricale principale – <i>main el. pump</i> | Elettricale Pilota/pilot el. pump |
|----------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------|
| | - | n.1 | n.1 |
| Avviamento: <i>Start up:</i> | - | <7,5kw Diretto/direct > 7,5Kw Stella/triangolo star/delta | Diretto / direct |
| Alimentazione – power supply: | - | 3x400V | 3x400V |
| Frequenza - Frequency: | | 50Hz | |
| | | IP 54 quadro elettrico / IP 54 electrical panel | |
| Grado di protezione: <i>Level of protection:</i> | | IP 55 elettropompa principale / IP 55 hydraulic pump | |
| | | IP 55 elettropompa pilota (opzionale) / IP 55 pilot electrical pump (optional) | |
| Pressione max – max pressure | | 16 Bar | |
| Prestazioni idrauliche <i>Hydraulic performances</i> | Idoneo per Alimentazione <i>Suitable for water supply</i> | Qmax | Hmax |
| | - Singola / single | 85 m ³ /h | 10 bar |
| | - Sing. Superiore/super | | |
| | - Doppia / double | | |

GRUPPI DI PRESSIONE ANTINCENDIO EN12845 - EN.11-VLR
FIRE-FIGHTING PRESSURE UNITS EN12845 - EN.11-VLR

TABELLE DELLE PRESTAZIONI IDRAULICHE⁽¹⁾
TABLE OF HYDRAULIC PERFORMANCES⁽¹⁾

| Mod | l/min | 50 | 100 | 150 | 175 | 200 | | |
|------------|---------------|------------|------------|------------|-------------|-------------|-------------|--------------|
| | m3/h | 3 | 6 | 9 | 10,5 | 12 | | |
| VLR8/30 | m.c.a. m.w.c. | 31 | 29 | 24 | 21 | 16 | | |
| VLR8/40 | | 41 | 38 | 32 | 27 | 22 | | |
| VLR8/50 | | 52 | 48 | 40 | 34 | 27 | | |
| VLR8/60 | | 62 | 58 | 48 | 41 | 33 | | |
| VLR8/80 | | 82 | 77 | 64 | 55 | 44 | | |
| VLR8/100 | | 103 | 96 | 80 | 69 | 55 | | |
| Mod | l/min | 100 | 200 | 250 | 300 | 350 | | |
| | m3/h | 6 | 12 | 15 | 18 | 21 | | |
| VLR16/30 | m.c.a. m.w.c. | 39 | 37 | 34 | 30 | 24 | | |
| VLR16/40 | | 52 | 49 | 46 | 40 | 32 | | |
| VLR16/50 | | 65 | 62 | 57 | 51 | 40 | | |
| VLR16/60 | | 78 | 74 | 69 | 61 | 47 | | |
| VLR16/70 | | 91 | 86 | 80 | 71 | 55 | | |
| Mod | l/min | 200 | 400 | 500 | 600 | 700 | | |
| | m3/h | 12 | 24 | 30 | 36 | 42 | | |
| VLR32-2 | m.c.a. m.w.c. | 35 | 31 | 72 | 22 | 41 | | |
| VLR32-3 | | 53 | 47 | 14 | 33 | 27 | | |
| VLR32-4 | | 71 | 63 | 55 | 44 | 72 | | |
| VLR32-5 | | 89 | 79 | 96 | 55 | 43 | | |
| Mod | l/min | 500 | 600 | 800 | 1000 | 1200 | 1300 | 1417 |
| | m3/h | 30 | 36 | 48 | 60 | 72 | 78 | 85,02 |
| VLR66-20 | m.c.a. m.w.c. | 55,7 | 54,5 | 51,1 | 47,1 | 42 | 38,9 | 34,7 |
| VLR66-30 | | 84,7 | 83 | 77,7 | 72 | 64 | 60 | 53,5 |
| VLR66-40 | | 113 | 110 | 103 | 96 | 86 | 79 | 70,8 |

⁽¹⁾ prestazioni relative ad una pompa in funzione idonea per alimentazione; singole, doppia e superiore
⁽¹⁾ with a running pump suitable for single, double and superior water supply

**MISURE D'INGOMBRO: EN.11-VLR
OVERALL DIMENSIONS: EN.11-VLR**


| Mod | dimens. in mm | | | | | | | | | | Rif Asam |
|--------------------------|---------------|-----|-----|------|------|-------|-------|----|----|-----|-------------|
| | L1 | P1 | H1 | H5 | L3 | D1 | D2 | D4 | F | L2 | |
| END11-VLR8/30+VLR2B/40 | 850 | 610 | 215 | 1220 | 1100 | 2"1/2 | 1"1/2 | 1" | 80 | 370 | a |
| END11-VLR8/40+VLR2B/50 | 850 | 610 | 215 | 1220 | 1100 | 2"1/2 | 1"1/2 | 1" | 80 | 370 | a |
| END11-VLR8/50+VLR2B/60 | 850 | 610 | 215 | 1220 | 1100 | 2"1/2 | 1"1/2 | 1" | 80 | 370 | a |
| END11-VLR8/60+VLR2B/70 | 850 | 610 | 215 | 1220 | 1100 | 2"1/2 | 1"1/2 | 1" | 80 | 370 | a |
| END11-VLR8/80+VLR2B/90 | 850 | 610 | 215 | 1220 | 1100 | 2"1/2 | 1"1/2 | 1" | 80 | 370 | a |
| END11-VLR8/100+VLR2B/110 | 850 | 610 | 215 | 1220 | 1100 | 2"1/2 | 1"1/2 | 1" | 80 | 370 | a |
| END11-VLR16/30+VLR2B/50 | 850 | 610 | 225 | 1220 | 1160 | 2"1/2 | 2" | 1" | 80 | 370 | a |
| END11-VLR16/40+VLR2B/60 | 850 | 610 | 225 | 1220 | 1160 | 2"1/2 | 2" | 1" | 80 | 370 | a |
| END11-VLR16/50+VLR2B/90 | 850 | 610 | 225 | 1220 | 1160 | 2"1/2 | 2" | 1" | 80 | 370 | a |
| END11-VLR16/60+VLR2B/90 | 850 | 610 | 225 | 1220 | 1160 | 2"1/2 | 2" | 1" | 80 | 370 | a |
| END11-VLR16/70+VLR2B/110 | 850 | 610 | 225 | 1220 | 1160 | 2"1/2 | 2" | 1" | 80 | 370 | a |
| END11-VLR32-2+VLR2B/50 | 940 | 700 | 230 | 1420 | 1560 | 3" | 2"1/2 | 1" | 80 | 440 | b |
| END11-VLR32-3+VLR2B/70 | 940 | 700 | 230 | 1420 | 1560 | 3" | 2"1/2 | 1" | 80 | 440 | b |
| END11-VLR32-4+VLR2B/90 | 940 | 700 | 230 | 1420 | 1560 | 3" | 2"1/2 | 1" | 80 | 440 | b |
| ENY11-VLR32-5+VLR2B/110 | 940 | 700 | 230 | 1420 | 1560 | 3" | 2"1/2 | 1" | 80 | 440 | b |
| ENY11-VLR66-20+VLR2B/90 | 940 | 700 | 265 | 1420 | 1600 | 5" | 3" | 1" | 80 | 490 | f |
| ENY11-VLR66-30+VLR2B/110 | 940 | 700 | 265 | 1450 | 1600 | 5" | 3" | 1" | 80 | 490 | f |
| ENY11-VLR66-40+VLR2B/130 | 940 | 700 | 265 | 1540 | 1600 | 5" | 3" | 1" | 80 | 490 | f |

Rif/Ref. Asam: v. accessori / see accessories

EN.20-VLR / EN.21-VLR

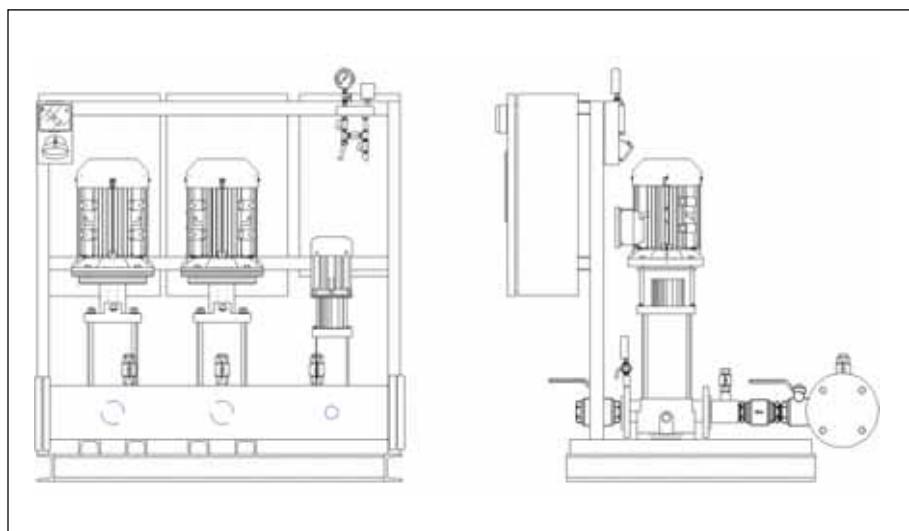
Gruppi di pressione antincendio con due elettropompe principali e pilota opzionale
Fire-fighting pressure unit with two main electric pumps and optional pilot

APPLICAZIONI

Alimentazioni d'impianti antincendio per sprinkler (EN12845)
 Alimentazioni d'impianti antincendio per idranti (UNI10779)

APPLICATION

Supply fire-fighting systems with sprinklers (EN12845)
 Supply fire-fighting systems with hydrants (UNI10779)


EN.20-VLR
EN.21-VLR
DATI TECNICI / TECHNICAL DATA

| Composizione gruppo di pressione <i>Pressure unit composition</i> | Motopompa <i>Motor pump</i> | Elettropompa principale <i>Main electric pump</i> | Elettropompa pilota <i>Pilot electric pump</i> |
|----------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| | - | n.2 | n.1 |
| Avviamento: <i>Start-up:</i> | - | <7,5kw Diretto / Direct > 7,5Kw Stella/triangolo - star /delta | Diretto / Direct |
| Alimentazione: <i>Power supply:</i> | - | 3x400V | 3x400V |
| Frequenza: <i>Frequency:</i> | | 50Hz | |
| Grado di protezione: <i>Level of protection:</i> | | IP 54 quadro elettrico / IP 54 electrical panel IP 55 pompa / IP 55 pump IP 44 elettropompa pilota (opzionale) / IP 44 pilot electrical pump (optional) | |
| Pressione max <i>Max pressure</i> | | 16 Bar | |
| Prestazioni idrauliche <i>Hydraulic performances</i> | Idoneo per alimentazione <i>Suitable for water supply</i> | Qmax | Hmax |
| | Singola / Single | 170 m3/h | 10 bar |
| | Singola superiore / single superior | | |
| | Doppia / double | 85 m3/h | 10 bar |

GRUPPI DI PRESSIONE ANTINCENDIO EN12845 - EN.20-VLR / EN.21-VLR

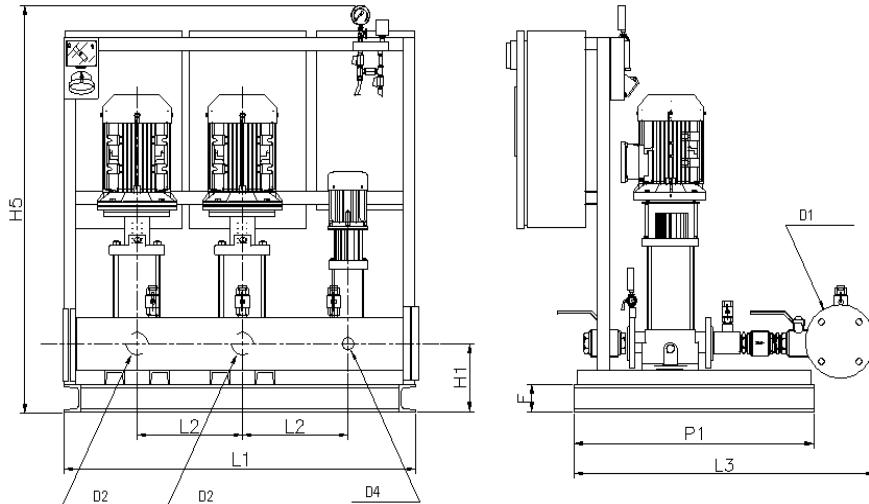
FIRE-FIGHTING PRESSURE UNITS EN12845 - EN.20-VLR / EN.21-VLR

TABELLE DELLE PRESTAZIONI IDRAULICHE ⁽¹⁾
 TABLE OF HYDRAULIC PERFORMANCES ⁽¹⁾

| Mod | I/min | 50 | 100 | 150 | 175 | 200 | | |
|----------|---------------|------|------|------|------|------|------|-------|
| | m3/h | 3 | 6 | 9 | 10,5 | 12 | | |
| VLR8/30 | m.c.a. m.w.c. | 31 | 29 | 24 | 21 | 16 | | |
| VLR8/40 | | 41 | 38 | 32 | 27 | 22 | | |
| VLR8/50 | | 52 | 48 | 40 | 34 | 27 | | |
| VLR8/60 | | 62 | 58 | 48 | 41 | 33 | | |
| VLR8/80 | | 82 | 77 | 64 | 55 | 44 | | |
| VLR8/100 | | 103 | 96 | 80 | 69 | 55 | | |
| Mod | I/min | 100 | 200 | 250 | 300 | 350 | | |
| | m3/h | 6 | 12 | 15 | 18 | 21 | | |
| VLR16/30 | m.c.a. m.w.c. | 39 | 37 | 34 | 30 | 24 | | |
| VLR16/40 | | 52 | 49 | 46 | 40 | 32 | | |
| VLR16/50 | | 65 | 62 | 57 | 51 | 40 | | |
| VLR16/60 | | 78 | 74 | 69 | 61 | 47 | | |
| VLR16/70 | | 91 | 86 | 80 | 71 | 55 | | |
| Mod | I/min | 200 | 400 | 500 | 600 | 700 | | |
| | m3/h | 12 | 24 | 30 | 36 | 42 | | |
| VLR32-2 | m.c.a. m.w.c. | 35 | 31 | 72 | 22 | 41 | | |
| VLR32-3 | | 53 | 47 | 14 | 33 | 27 | | |
| VLR32-4 | | 71 | 63 | 55 | 44 | 72 | | |
| VLR32-5 | | 89 | 79 | 96 | 55 | 43 | | |
| Mod | I/min | 500 | 600 | 800 | 1000 | 1200 | 1300 | 1417 |
| | m3/h | 30 | 36 | 48 | 60 | 72 | 78 | 85,02 |
| VLR66-20 | m.c.a. m.w.c. | 55,7 | 54,5 | 51,1 | 47,1 | 42 | 38,9 | 34,7 |
| VLR66-30 | | 84,7 | 83 | 77,7 | 72 | 64 | 60 | 53,5 |
| VLR66-40 | | 113 | 110 | 103 | 96 | 86 | 79 | 70,8 |

⁽¹⁾ prestazioni relative ad una pompa in funzione idonea per alimentazione; singole, doppia e superiore
⁽¹⁾ with a running pump suitable for single, double and superior water supply

MISURE D'INGOMBRO: EN.20-VLR / EN.21-VLR
OVERALL DIMENSIONS: EN.20-VLR / EN.21-VLR



| Mod | dimens. in mm | | | | | | | | | Modello con pompa pilota Model with pilot pump | dimensioni in mm | | Rif/Ref Asam |
|----------------|---------------|-----|-----|------|------|----|----|----|-----|---------------------------------------------------|------------------|----|-----------------|
| | | | | | | | | | | | | | |
| | L1 | P1 | H1 | H5 | L3 | D1 | D2 | F | L2 | | L1 | D4 | |
| END20-VLR8/30 | 850 | 610 | 215 | 1220 | 1100 | 2½ | 1½ | 80 | 370 | END21-VLR8/30+VLR2B/40 | 1300 | 1" | a |
| END20-VLR8/40 | 850 | 610 | 215 | 1220 | 1100 | 2½ | 1½ | 80 | 370 | END21-VLR8/40+VLR2B/50 | 1300 | 1" | a |
| END20-VLR8/50 | 850 | 610 | 215 | 1220 | 1100 | 2½ | 1½ | 80 | 370 | END21-VLR8/50+VLR2B/60 | 1300 | 1" | a |
| END20-VLR8/60 | 850 | 610 | 215 | 1220 | 1100 | 2½ | 1½ | 80 | 370 | END21-VLR8/60+VLR2B/70 | 1300 | 1" | a |
| END20-VLR8/80 | 850 | 610 | 215 | 1220 | 1100 | 2¾ | 1½ | 80 | 370 | END21-VLR8/80+VLR2B/90 | 1300 | 1" | a |
| END20-VLR8/100 | 850 | 610 | 215 | 1220 | 1100 | 2½ | 1½ | 80 | 370 | END21-VLR8/100+VLR2B/130 | 1300 | 1" | a |
| END20-VLR16/30 | 850 | 610 | 225 | 1220 | 1160 | 2½ | 2" | 80 | 370 | END21-VLR16/30+VLR2B/50 | 1300 | 1" | a |
| END20-VLR16/40 | 850 | 610 | 225 | 1220 | 1160 | 2½ | 2" | 80 | 370 | END21-VLR16/40+VLR2B/60 | 1300 | 1" | a |
| END20-VLR16/50 | 850 | 610 | 225 | 1220 | 1160 | 2½ | 2" | 80 | 370 | END21-VLR16/50+VLR2B/90 | 1300 | 1" | a |
| END20-VLR16/60 | 850 | 610 | 225 | 1220 | 1160 | 2½ | 2" | 80 | 370 | END21-VLR16/60+VLR2B/90 | 1300 | 1" | a |
| END20-VLR16/70 | 850 | 610 | 225 | 1220 | 1160 | 2½ | 2" | 80 | 370 | END21-VLR16/70+VLR2B/110 | 1300 | 1" | a |
| END20-VLR32-2 | 940 | 700 | 230 | 1420 | 1560 | 3" | 2½ | 80 | 440 | END21-VLR32-2+VLR2B/50 | 1420 | 1" | b |
| END20-VLR32-3 | 940 | 700 | 230 | 1420 | 1560 | 3" | 2½ | 80 | 440 | END21 VLR32-3+VLR2B/70 | 1420 | 1" | b |
| END20-VLR32-4 | 940 | 700 | 230 | 1420 | 1560 | 3" | 2½ | 80 | 440 | END21 VLR32-4+VLR2B/90 | 1420 | 1" | b |
| ENY20-VLR32-5 | 940 | 700 | 230 | 1420 | 1560 | 3" | 2½ | 80 | 440 | ENY21-VLR32-5+VLR2B/110 | 1420 | 1" | b |
| ENY20-VLR66-20 | 940 | 700 | 265 | 1420 | 1600 | 5" | 3" | 80 | 490 | ENY21-VLR66-20+VLR2B/90 | 1420 | 1" | f |
| ENY20-VLR66-30 | 940 | 700 | 265 | 1450 | 1600 | 5" | 3" | 80 | 490 | ENY21-VLR66-30+VLR2B/110 | 1420 | 1" | f |
| ENY20-VLR66-40 | 940 | 700 | 265 | 1540 | 1600 | 5" | 3" | 80 | 490 | ENY21-VLR66-40+VLR2B/130 | 1420 | 1" | f |

Rif/Ref. Asam: v. accessori / see accessories

EN.30-VLR / EN.31-VLR

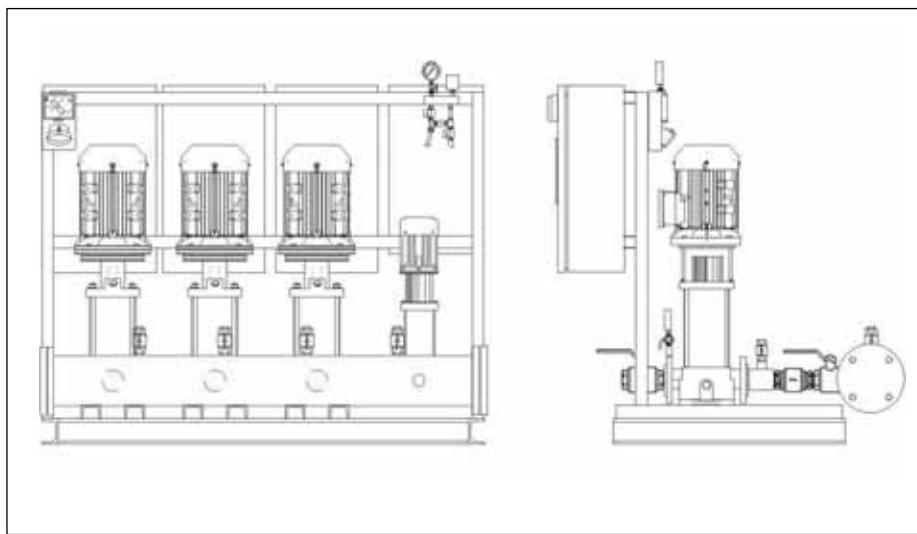
Gruppi di pressione antincendio con tre elettropompe principali e pilota opzionale
Fire-fighting pressure unit with three main electric pumps and optional pilot

APPLICAZIONI

Alimentazioni d'impianti antincendio per sprinkler (EN12845)
 Alimentazioni d'impianti antincendio per idranti (UNI10779)

APPLICATION

Supply fire-fighting systems with sprinklers (EN12845)
 Supply fire-fighting systems with hydrants (UNI10779)



EN.30-VLR
EN.31-VLR

DATI TECNICI / TECHNICAL DATA

| Composizione gruppo di pressione <i>Pressure unit composition</i> | Motopompa <i>Motor pump</i> | Elettropompa principale <i>Main electric pump</i> | Elettropompa pilota <i>Pilot electric pump</i> |
|----------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| | - | n.3 | n.1 |
| Avviamento: <i>Start-up:</i> | - | <7,5kw Diretto / Direct > 7,5Kw Stella/triangolo - star /delta | Diretto / Direct |
| Alimentazione: <i>Power supply:</i> | - | 3x400V | 3x400V |
| Frequenza: <i>Frequency:</i> | | 50Hz | |
| Grado di protezione: <i>Level of protection:</i> | | IP 54 quadro elettrico / IP 54 electrical panel IP 55 pompa / IP 55 pump IP 44 elettropompa pilota (opzionale) IP 44 pilot electrical pump (optional) | |
| Pressione max <i>Max pressure</i> | | 16 Bar | |
| Prestazioni idrauliche <i>Hydraulic performances</i> | Idoneo per alimentazione <i>Suitable for water supply</i> | Qmax | Hmax |
| | Singola / Single | 170 m3/h | 10 bar |
| | Singola superiore / single superior | 85 m3/h | 10 bar |
| | Doppia / double | | |

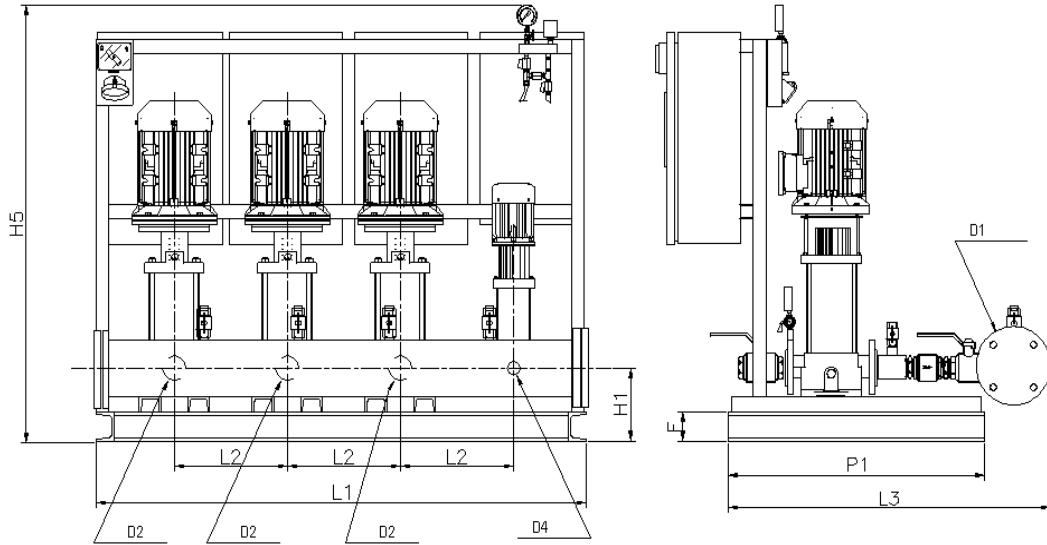
GRUPPI DI PRESSIONE ANTINCENDIO EN12845 - EN.30-VLR / EN.31-VLR
FIRE-FIGHTING PRESSURE UNITS EN12845 - EN.30-VLR / EN.31-VLR

TABELLE DELLE PRESTAZIONI IDRAULICHE⁽¹⁾
TABLE OF HYDRAULIC PERFORMANCES⁽¹⁾

| Mod | I/min | 100 | 200 | 300 | 350 | 400 | | |
|------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | m3/h | 6 | 12 | 18 | 21 | 24 | | |
| VLR8/30 | m.c.a. m.w.c. | 31 | 29 | 24 | 21 | 16 | | |
| VLR8/40 | | 41 | 38 | 32 | 27 | 22 | | |
| VLR8/50 | | 52 | 48 | 40 | 34 | 27 | | |
| VLR8/60 | | 62 | 58 | 48 | 41 | 33 | | |
| VLR8/80 | | 82 | 77 | 64 | 55 | 44 | | |
| VLR8/100 | | 103 | 96 | 80 | 69 | 55 | | |
| Mod | I/min | 200 | 400 | 500 | 600 | 700 | | |
| | m3/h | 12 | 24 | 30 | 36 | 42 | | |
| VLR16/30 | m.c.a. m.w.c. | 39 | 37 | 34 | 30 | 24 | | |
| VLR16/40 | | 52 | 49 | 46 | 40 | 32 | | |
| VLR16/50 | | 65 | 62 | 57 | 51 | 40 | | |
| VLR16/60 | | 78 | 74 | 69 | 61 | 47 | | |
| VLR16/70 | | 91 | 86 | 80 | 71 | 55 | | |
| Mod | I/min | 400 | 800 | 1000 | 1200 | 1400 | | |
| | m3/h | 24 | 48 | 60 | 72 | 84 | | |
| VLR32-2 | m.c.a. m.w.c. | 35 | 31 | 72 | 22 | 41 | | |
| VLR32-3 | | 53 | 47 | 14 | 33 | 27 | | |
| VLR32-4 | | 71 | 63 | 55 | 44 | 72 | | |
| VLR32-5 | | 89 | 79 | 96 | 55 | 43 | | |
| Mod | I/min | 1000 | 1200 | 1600 | 2000 | 2400 | 2600 | 2834 |
| | m3/h | 60 | 72 | 96 | 120 | 144 | 156 | 170 |
| VLR66-20 | m.c.a. m.w.c. | 55,7 | 54,5 | 51,1 | 47,1 | 42 | 38,9 | 34,7 |
| VLR66-30 | | 84,7 | 83 | 77,7 | 72 | 64 | 60 | 53,5 |
| VLR66-40 | | 113 | 110 | 103 | 96 | 86 | 79 | 70,8 |

⁽¹⁾ prestazioni relative ad una pompa in funzione idonea per alimentazione tipo singola
⁽¹⁾ with a running pump suitable for single water supply

MISURE D'INGOMBRO: EN.30-VLR / EN.31-VLR
OVERALL DIMENSIONS: EN.30-VLR / EN.31-VLR



| Mod | dimens. in mm | | | | | | | | | Modello con pompa pilota <i>Model with pilot pump</i> | dimens. in mm | | Rif/Ref Asam |
|----------------|---------------|-----|-----|------|------|----|-------|----|-----|----------------------------------------------------------|---------------|----|-----------------|
| | L1 | P1 | H1 | H5 | L3 | D1 | D2 | F | L2 | | L1 | D4 | |
| END30-VLR8/30 | 1300 | 610 | 215 | 1220 | 1100 | 3" | 1 1/2 | 80 | 370 | END31-VLR8/30+VLR2B/40 | 1750 | 1" | b |
| END30-VLR8/40 | 1300 | 610 | 215 | 1220 | 1100 | 3" | 1 1/2 | 80 | 370 | END31-VLR8/40+VLR2B/50 | 1750 | 1" | b |
| END30-VLR8/50 | 1300 | 610 | 215 | 1220 | 1100 | 3" | 1 1/2 | 80 | 370 | END31-VLR8/50+VLR2B/60 | 1750 | 1" | b |
| END30-VLR8/60 | 1300 | 610 | 215 | 1220 | 1100 | 3" | 1 1/2 | 80 | 370 | END31-VLR8/60+VLR2B/70 | 1750 | 1" | b |
| END30-VLR8/80 | 1300 | 610 | 215 | 1220 | 1100 | 3" | 1 1/2 | 80 | 370 | END31-VLR8/80+VLR2B/90 | 1750 | 1" | b |
| END30-VLR8/100 | 1300 | 610 | 215 | 1220 | 1100 | 3" | 1 1/2 | 80 | 370 | END31-VLR8/100+VLR2B/130 | 1750 | 1" | b |
| END30-VLR16/30 | 1300 | 610 | 225 | 1220 | 1160 | 4" | 2" | 80 | 370 | END31-VLR16/30+VLR2B/50 | 1750 | 1" | e |
| END30-VLR16/40 | 1300 | 610 | 225 | 1220 | 1160 | 4" | 2" | 80 | 370 | END31-VLR16/40+VLR2B/60 | 1750 | 1" | e |
| END30-VLR16/50 | 1300 | 610 | 225 | 1220 | 1160 | 4" | 2" | 80 | 370 | END31-VLR16/50+VLR2B/90 | 1750 | 1" | e |
| END30-VLR16/60 | 1300 | 610 | 225 | 1220 | 1160 | 4" | 2" | 80 | 370 | END31-VLR16/60+VLR2B/90 | 1750 | 1" | e |
| END30-VLR16/70 | 1300 | 610 | 225 | 1220 | 1160 | 4" | 2" | 80 | 370 | END31-VLR16/70+VLR2B/110 | 1750 | 1" | e |
| END30-VLR32-2 | 1420 | 700 | 230 | 1420 | 1560 | 5" | 2 1/2 | 80 | 440 | END31-VLR32-2+VLR2B/50 | 1920 | 1" | f |
| END30-VLR32-3 | 1420 | 700 | 230 | 1420 | 1560 | 5" | 2 1/2 | 80 | 440 | END31-VLR32-3+VLR2B/70 | 1920 | 1" | f |
| END30-VLR32-4 | 1420 | 700 | 230 | 1420 | 1560 | 5" | 2 1/2 | 80 | 440 | END31-VLR32-4+VLR2B/90 | 1920 | 1" | f |
| END30-VLR32-5 | 1420 | 700 | 230 | 1420 | 1560 | 5" | 2 1/2 | 80 | 440 | ENY31-VLR32-5+VLR2B/110 | 1920 | 1" | f |
| ENY30-VLR66-20 | 1420 | 700 | 265 | 1420 | 1600 | 6" | 3" | 80 | 490 | ENY31-VLR66-20+VLR2B/90 | 1920 | 1" | i |
| ENY30-VLR66-30 | 1420 | 700 | 265 | 1450 | 1600 | 6" | 3" | 80 | 490 | ENY31-VLR66-30+VLR2B/110 | 1920 | 1" | i |
| ENY30-VLR66-40 | 1420 | 700 | 265 | 1540 | 1600 | 6" | 3" | 80 | 490 | ENY31-VLR66-40+VLR2B/130 | 1920 | 1" | i |

Rif/Ref. Asam: v. accessori / see accessories

TABELLA DELLE PRESTAZIONI ELETROPOMPA PILOTA
PILOT ELECTRIC PUMP PERFORMANCE TABLE

| Mod | I/min | 10 | 20 | 30 | 40 | 50 | 60 |
|------------------|---------------|-----|-----|-----|-----|-----|-----|
| | m3/h | 0,6 | 1,2 | 1,8 | 2,4 | 3,0 | 3,6 |
| SCM4 PLUS 55/80 | m.c.a. m.w.c. | 75 | 66 | 55 | 35 | 12 | |
| SCM4 PLUS 55/105 | | 98 | 87 | 72 | 46 | 12 | |
| SCM4 PLUS 75/140 | | 131 | 127 | 116 | 105 | 86 | 57 |

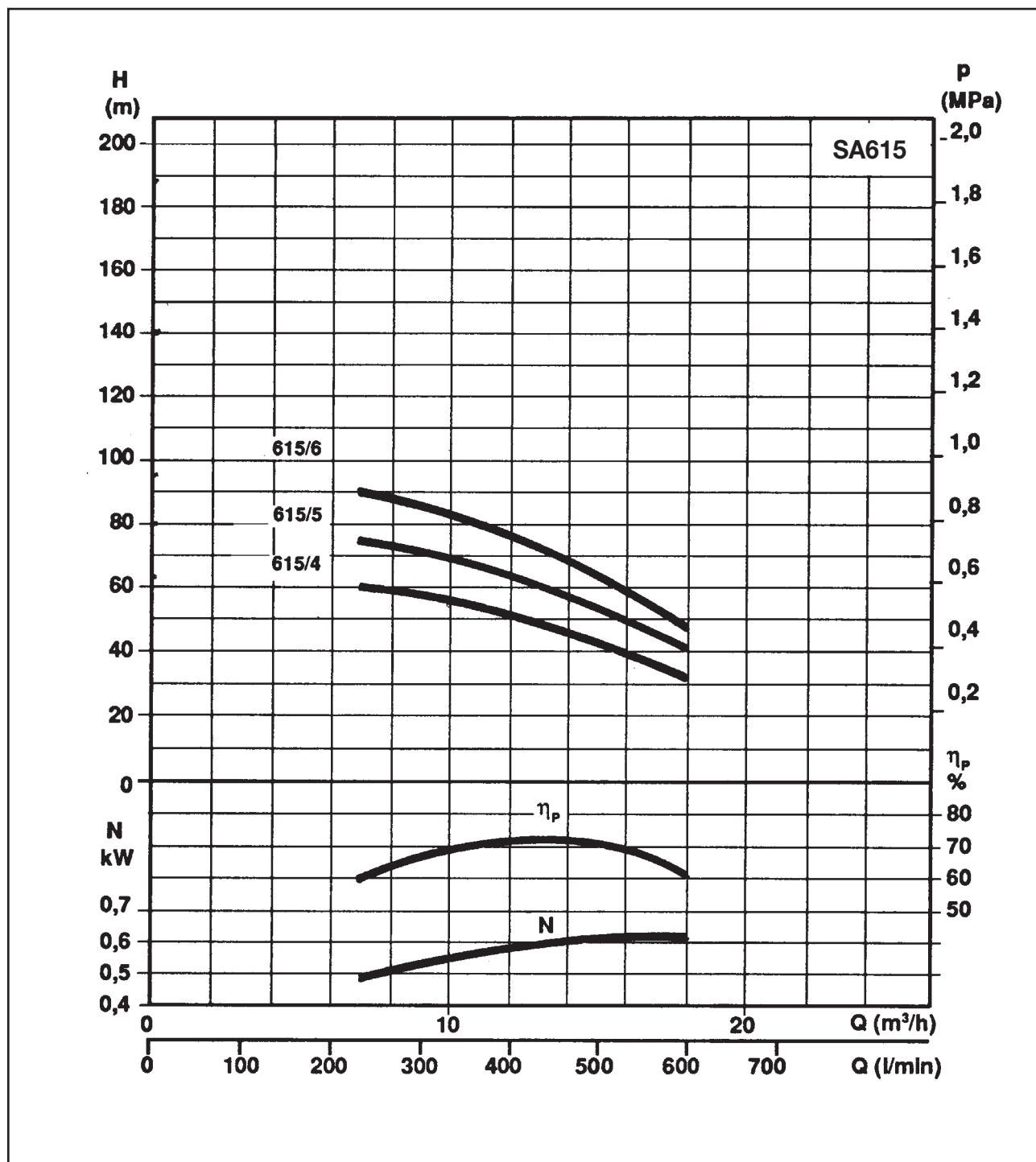
TABELLA DELLE PRESTAZIONI POMPA PRINCIPALE ASSE VERTICALE

Alimentazioni relative ad una pompa in funzione idonea per alimentazione; singola, doppia e superiore

VERTICAL AXIS MAIN PUMP PERFORMANCE TABLE

Supply for running pump suitable for single, double and superior water supplies

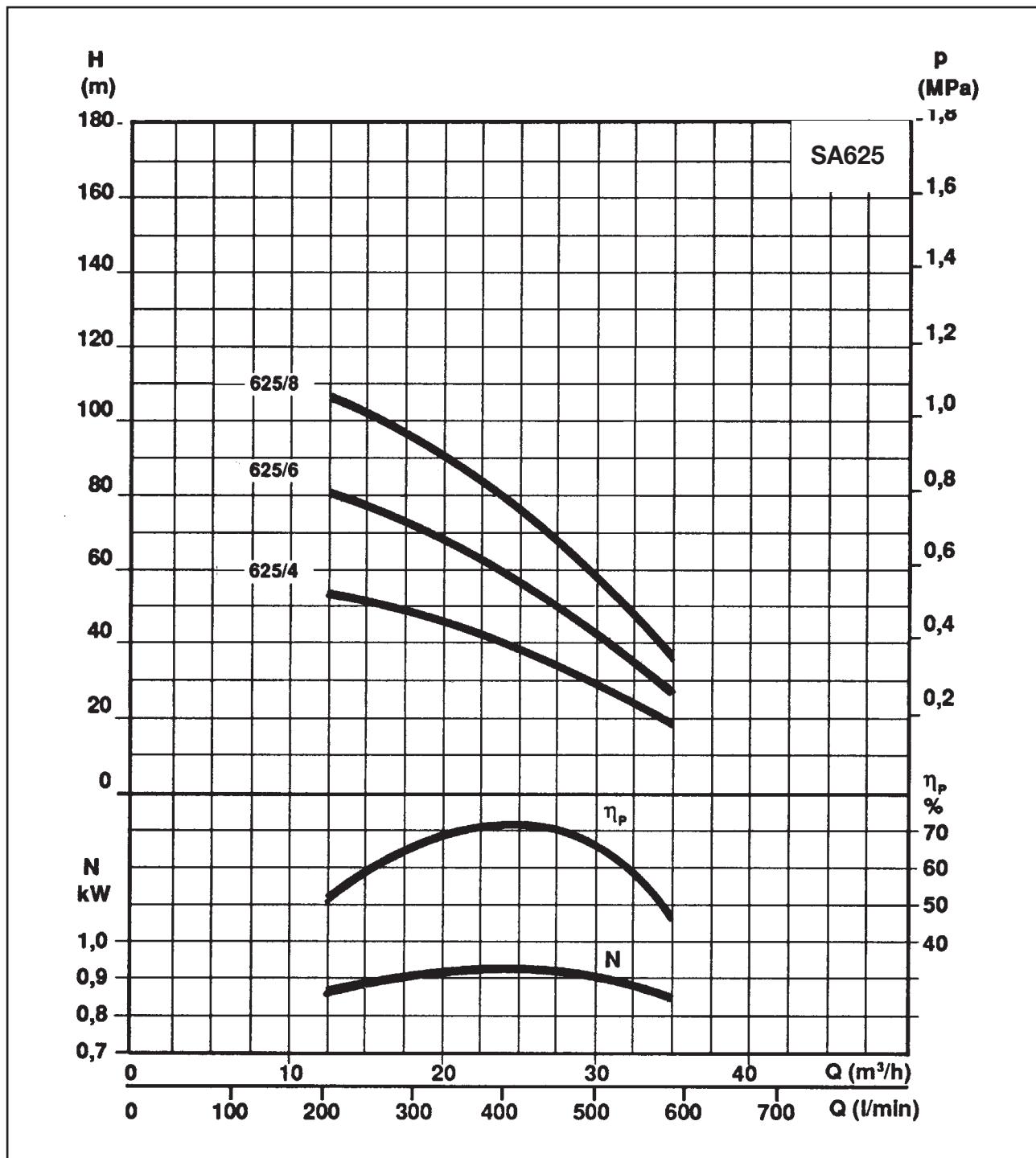
| Mod | I/min | 120 | 160 | 200 | 230 | 260 | 300 |
|----------|-----------------|------|------|------|------|------|------|
| | m3/h | 7,2 | 9,6 | 12,0 | 13,8 | 15,6 | 18,0 |
| SA 615/4 | m.c.a m.w.c. | 60 | 55 | 51 | 46 | 39 | 31 |
| SA 615/5 | | 74 | 69 | 63 | 57 | 49 | 39 |
| SA 615/6 | | 89 | 82 | 75 | 68 | 58 | 46 |
| Mod | I/min | 200 | 300 | 350 | 400 | 500 | 600 |
| | m3/h | 12,0 | 18,0 | 21,0 | 24,0 | 30,0 | 36,0 |
| SA 625/4 | m.c.a m.w.c. | 53 | 48 | 44 | 40 | 28 | 17 |
| SA 625/6 | | 80 | 71 | 66 | 59 | 43 | 25 |
| SA 625/8 | | 106 | 95 | 87 | 79 | 58 | 34 |
| Mod | I/min | 300 | 400 | 500 | 600 | 700 | 800 |
| | m3/h | 18,0 | 24,0 | 30,0 | 36,0 | 42,0 | 48,0 |
| SA 630/4 | m.c.a m.w.c. | 57 | 53 | 47 | 40 | 30 | 19 |
| SA 630/5 | | 72 | 67 | 59 | 50 | 37 | 23 |
| SA 630/8 | | 114 | 106 | 94 | 80 | 62 | 37 |
| Mod | I/min | 600 | 700 | 800 | 900 | 1000 | 1100 |
| | m3/h | 36,0 | 42,0 | 48,0 | 54,0 | 60,0 | 66,0 |
| SA 650/4 | m.c.a m.w.c. | 40 | 35 | 31 | 25 | 19 | 13 |
| SA 650/6 | | 59 | 53 | 46 | 37 | 29 | 20 |
| SA 650/9 | | 90 | 80 | 68 | 57 | 44 | 30 |

CURVA DELLE PRESTAZIONI IDRAULICHE
TABLE OF HYDRAULIC PERFORMANCE


- La curva di potenza si riferisce alla potenza all'albero per stadio. $\eta_p \%$ indica il rendimento idraulico della pompa

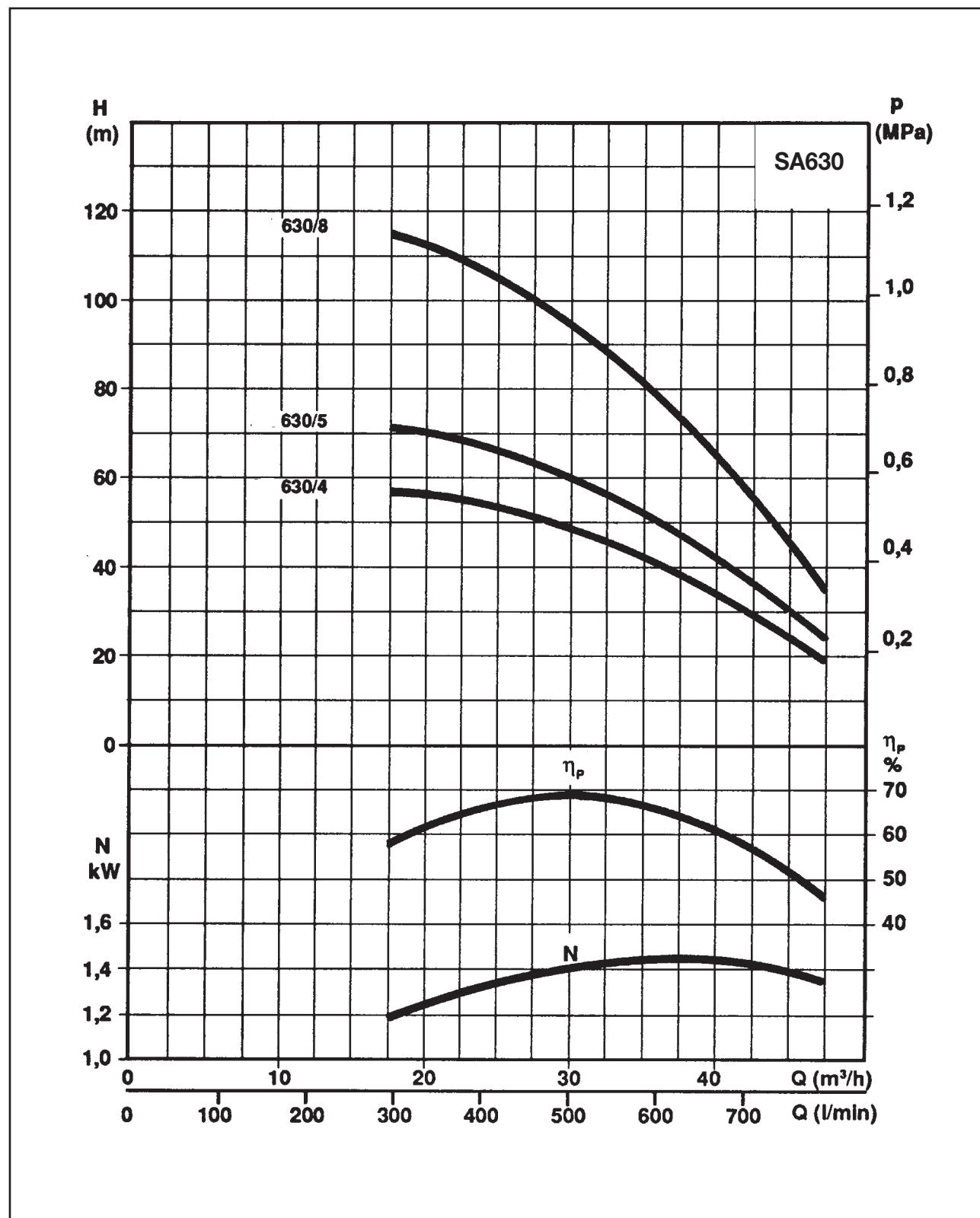
- The power curve refers to the brake horse power (BHP) per stage. $\eta_p \%$ indicates the pump hydraulic efficiency

CURVA DELLE PRESTAZIONI IDRAULICHE
TABLE OF HYDRAULIC PERFORMANCE



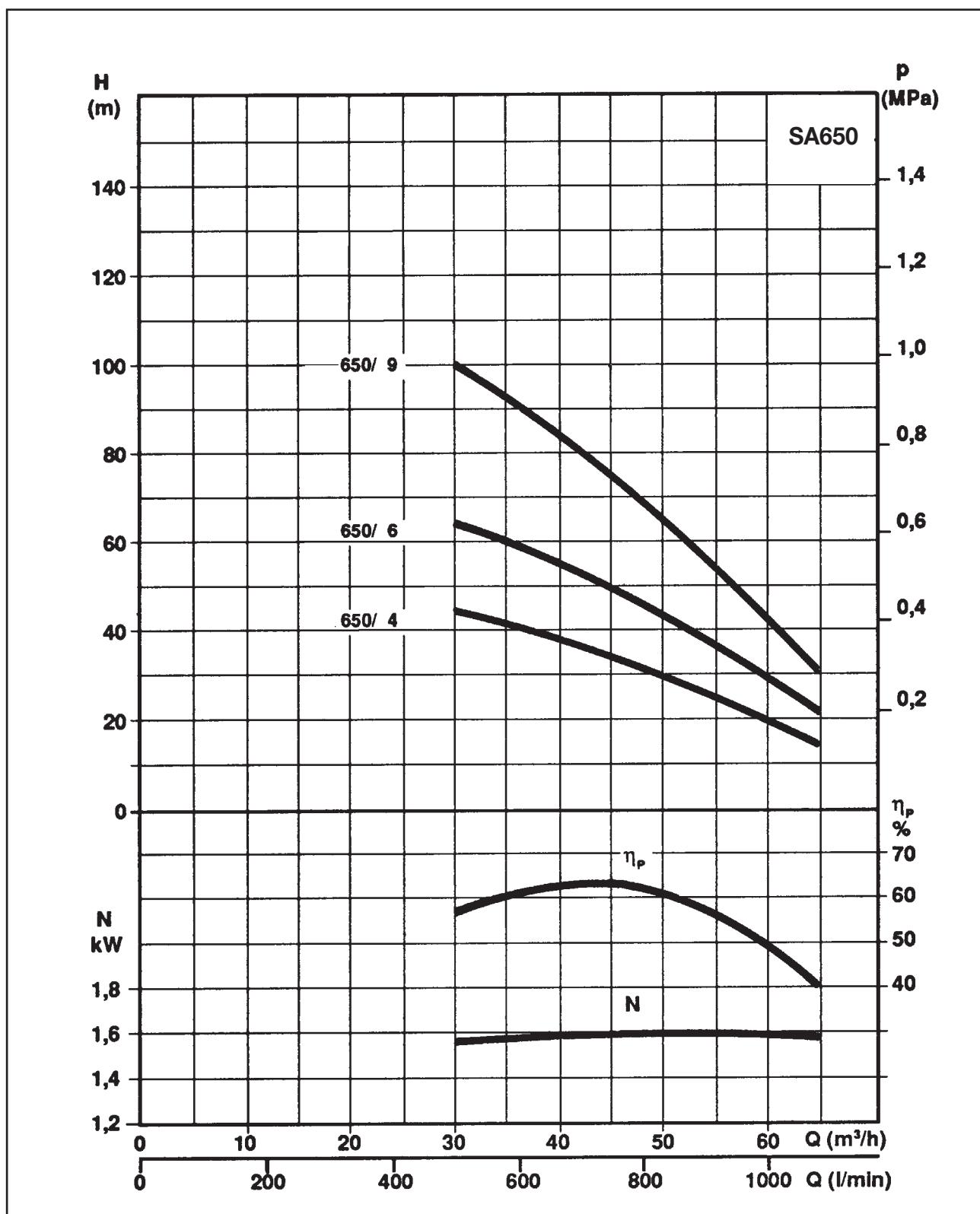
- La curva di potenza si riferisce alla potenza all'albero per stadio. η_p % indica il rendimento idraulico della pompa

- The power curve refers to the brake horse power (BHP) per stage. η_p % indicates the pump hydraulic efficiency

CURVA DELLE PRESTAZIONI IDRAULICHE
TABLE OF HYDRAULIC PERFORMANCE


- La curva di potenza si riferisce alla potenza all'albero per stadio. η_P % indica il rendimento idraulico della pompa

- The power curve refers to the brake horse power (BHP) per stage. η_P % indicates the pump hydraulic efficiency

CURVA DELLE PRESTAZIONI IDRAULICHE
TABLE OF HYDRAULIC PERFORMANCE


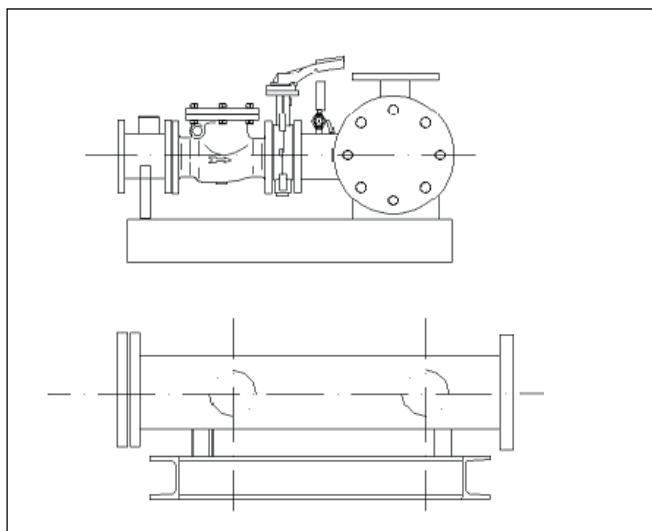
- La curva di potenza si riferisce alla potenza all'albero per stadio. η_p % indica il rendimento idraulico della pompa

- The power curve refers to the brake horse power (BHP) per stage. η_p % indicates the pump hydraulic efficiency

EN.11-SA
Gruppi di pressione antincendio con un'elettropompa principale e pilota opzionale
Fire-fighting pressure unit with a main electric pump and optional pilot
APPLICAZIONI

 Alimentazioni d'impianti antincendio per sprinkler (EN12845)
 Alimentazioni d'impianti antincendio per idranti (UNI10779)

APPLICATION

 Supply fire-fighting systems with sprinklers (EN12845)
 Supply fire-fighting systems with hydrants (UNI10779)

EN.11-SA
DATI TECNICI
TECHNICAL DATA

| Composizione gruppo di pressione <i>Pressure unit composition</i> | Motopompa <i>Motor pump</i> | Elettropompa principale <i>Main electric pump</i> | Elettropompa pilota <i>Pilot electric pump</i> |
|----------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| | - | n.1 | n.1 |
| Avviamento: <i>Start-up:</i> | - | <7,5kw Diretto / Direct > 7,5Kw reattanze / reactances | Diretto / Direct |
| Alimentazione: <i>Power supply:</i> | - | 3x400V | 3x400V |
| Frequenza: <i>Frequency:</i> | | 50Hz | |
| Grado di protezione: <i>Level of protection:</i> | | IP 54 quadro elettrico / IP 54 electrical panel IP 68 pompa / IP 68 pump IP 68 elettropompa pilota (opzionale) / IP 68 pilot electrical pump (optional) | |
| Pressione max <i>Max pressure</i> | | 16 Bar | |
| Prestazioni idrauliche <i>Hydraulic performances</i> | Idoneo per alimentazione <i>Suitable for water supply</i> | Qmax | Hmax |
| | Singola / Single | 66m ³ /h | 12 bar |
| | Singola superiore / single superior | | |
| | Doppia / double | | |

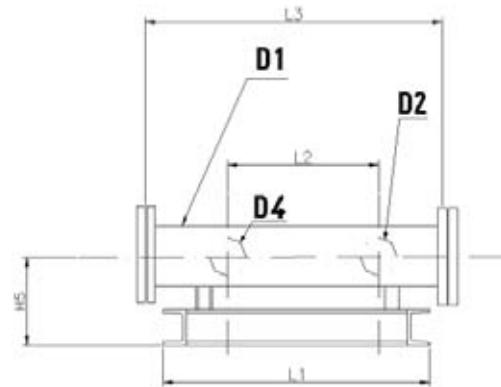
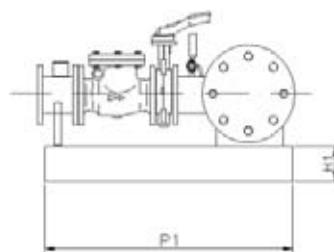
**GRUPPI DI PRESSIONE ANTINCENDIO EN12845 - EN.11-SA
FIRE-FIGHTING PRESSURE UNITS EN12845 - EN.11-SA**

**TABELLE DELLE PRESTAZIONI IDRAULICHE⁽¹⁾
TABLE OF HYDRAULIC PERFORMANCES⁽¹⁾**

| Mod | l/min | 120 | 160 | 200 | 230 | 260 | 300 |
|------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | m3/h | 7,2 | 9,6 | 12,0 | 13,8 | 15,6 | 18,0 |
| SA 615/4 | m.c.a m.w.c. | 60 | 55 | 51 | 46 | 39 | 31 |
| SA 615/5 | | 74 | 69 | 63 | 57 | 49 | 39 |
| SA 615/6 | | 89 | 82 | 75 | 68 | 58 | 46 |
| Mod | l/min | 200 | 300 | 350 | 400 | 500 | 600 |
| | m3/h | 12,0 | 18,0 | 21,0 | 24,0 | 30,0 | 36,0 |
| SA 625/4 | m.c.a m.w.c. | 53 | 48 | 44 | 40 | 28 | 17 |
| SA 625/6 | | 80 | 71 | 66 | 59 | 43 | 25 |
| SA 625/8 | | 106 | 95 | 87 | 79 | 58 | 34 |
| Mod | l/min | 300 | 400 | 500 | 600 | 700 | 800 |
| | m3/h | 18,0 | 24,0 | 30,0 | 36,0 | 42,0 | 48,0 |
| SA 630/4 | m.c.a m.w.c. | 57 | 53 | 47 | 40 | 30 | 19 |
| SA 630/5 | | 72 | 67 | 59 | 50 | 37 | 23 |
| SA 630/8 | | 114 | 106 | 94 | 80 | 62 | 37 |
| Mod | l/min | 600 | 700 | 800 | 900 | 1000 | 1100 |
| | m3/h | 36,0 | 42,0 | 48,0 | 54,0 | 60,0 | 66,0 |
| SA 650/4 | m.c.a m.w.c. | 40 | 35 | 31 | 25 | 19 | 13 |
| SA 650/6 | | 59 | 53 | 46 | 37 | 29 | 20 |
| SA 650/9 | | 90 | 80 | 68 | 57 | 44 | 30 |

⁽¹⁾ prestazioni relative ad una pompa in funzione idonea per alimentazione; singole, doppia e superiore
⁽¹⁾ with a running pump suitable for single, double and superior water supplies

MISURE D'INGOMBRO: EN.11-SA
OVERALL DIMENSIONS: EN.11-SA



| Mod | dimens. in mm | | | | | | | | | Rif/Ref. Asam |
|---------------------------------|---------------|-----|-----|-----|----|----|-------|----|-----|------------------|
| | L1 | P1 | H5 | L3 | D1 | D2 | D4 | F | L2 | |
| END11-SA615/4+SCMPL55/80 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | o |
| END11-SA615/5+SCM4PL 55/105 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | o |
| END11-SA615/6+SCM4PLUS55-105 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | o |
| END11-SA625/4 + SCM4PLUS 55/80 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| END11-SA625/6+SCM4PL 55/105 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| END11-SA625/8+SCM4PL 75/140 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| END11-SA630/4+SCM4PL 55/80 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| END11-SA630/5+SCM4PL 55/105 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| ENR11-SA630/8+SCM4PL 55/105 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| END11-SA650/4+SCM4PL 55/80 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | d |
| ENR11-SA650/6+SCM4PL 55/105 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | d |
| ENR11-SA 650-9+SCM4 Plus 75/140 | 590 | 500 | 210 | 670 | 4" | 3" | 1"1/4 | 80 | 370 | d |

Rif/Ref. Asam: v. accessori / see accessories

EN.21-SA

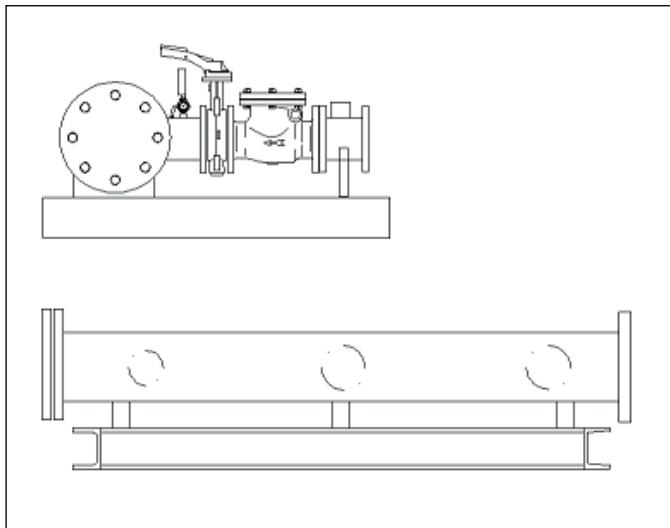
Gruppi di pressione antincendio con un'elettropompa principale e pilota opzionale
Fire-fighting pressure unit with a main electric pump and optional pilot

APPLICAZIONI

Alimentazioni d'impianti antincendio per sprinkler (EN12845)
 Alimentazioni d'impianti antincendio per idranti (UNI10779)

APPLICATION

Supply fire-fighting systems with sprinklers (EN12845)
 Supply fire-fighting systems with hydrants (UNI10779)


EN.21-SA

DATI TECNICI / TECHNICAL DATA

| Composizione gruppo di pressione <i>Pressure unit composition</i> | Motopompa <i>Motor pump</i> | Elettropompa principale <i>Main electric pump</i> | Elettropompa pilota <i>Pilot electric pump</i> | |
|----------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--|
| | - | n.2 | n.1 | |
| Avviamento: <i>Start-up:</i> | - | <7,5kw Diretto / direct > 7,5Kw reattanze / reactance | Diretto / direct | |
| Alimentazione: <i>Power supply:</i> | - | 3x400V | 3x400V | |
| Frequenza: <i>Frequency:</i> | | 50Hz | | |
| Grado di protezione: <i>Level of protection:</i> | | IP 54 quadro elettrico / IP 54 electrical panel IP 68 idraulica pompa / IP 68 hydraulic pump IP 68 elettropompa pilota / IP 68 pilot electrical pump | | |
| Pressione max <i>Max pressure</i> | | 16 Bar | | |
| Prestazioni idrauliche <i>Hydraulic performances</i> | Idoneo per alimentazione <i>Suitable for water supply</i> | Qmax | Hmax | |
| | Singola / Single | 132 m3/h | 12 bar | |
| | Singola superiore / single superior | 66 m3/h | | |
| | Doppia / double | | | |

GRUPPI DI PRESSIONE ANTINCENDIO EN12845 - EN.21-SA

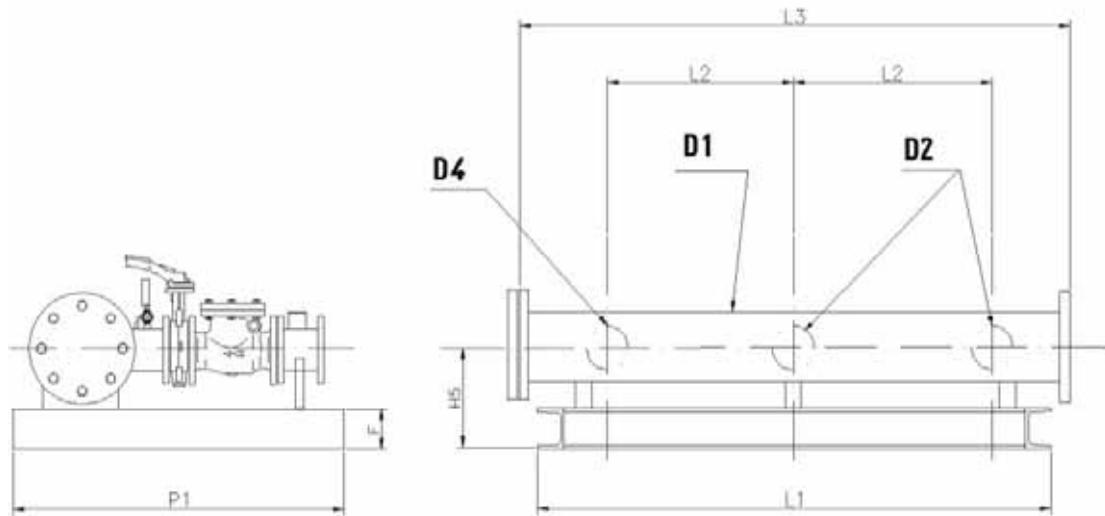
FIRE-FIGHTING PRESSURE UNITS EN12845 - EN.21-SA

TABELLE DELLE PRESTAZIONI IDRAULICHE ⁽¹⁾
 TABLE OF HYDRAULIC PERFORMANCES ⁽¹⁾

| Mod | I/min | 120 | 160 | 200 | 230 | 260 | 300 |
|----------|-----------------|------|------|------|------|------|------|
| | m3/h | 7,2 | 9,6 | 12,0 | 13,8 | 15,6 | 18,0 |
| SA 615/4 | m.c.a m.w.c. | 60 | 55 | 51 | 46 | 39 | 31 |
| SA 615/5 | | 74 | 69 | 63 | 57 | 49 | 39 |
| SA 615/6 | | 89 | 82 | 75 | 68 | 58 | 46 |
| Mod | I/min | 200 | 300 | 350 | 400 | 500 | 600 |
| | m3/h | 12,0 | 18,0 | 21,0 | 24,0 | 30,0 | 36,0 |
| SA 625/4 | m.c.a m.w.c. | 53 | 48 | 44 | 40 | 28 | 17 |
| SA 625/6 | | 80 | 71 | 66 | 59 | 43 | 25 |
| SA 625/8 | | 106 | 95 | 87 | 79 | 58 | 34 |
| Mod | I/min | 300 | 400 | 500 | 600 | 700 | 800 |
| | m3/h | 18,0 | 24,0 | 30,0 | 36,0 | 42,0 | 48,0 |
| SA 630/4 | m.c.a m.w.c. | 57 | 53 | 47 | 40 | 30 | 19 |
| SA 630/5 | | 72 | 67 | 59 | 50 | 37 | 23 |
| SA 630/8 | | 114 | 106 | 94 | 80 | 62 | 37 |
| Mod | I/min | 600 | 700 | 800 | 900 | 1000 | 1100 |
| | m3/h | 36,0 | 42,0 | 48,0 | 54,0 | 60,0 | 66,0 |
| SA 650/4 | m.c.a m.w.c. | 40 | 35 | 31 | 25 | 19 | 13 |
| SA 650/6 | | 59 | 53 | 46 | 37 | 29 | 20 |
| SA 650/9 | | 90 | 80 | 68 | 57 | 44 | 30 |

⁽¹⁾ prestazioni relative ad una pompa in funzione idonea per alimentazione; singole, doppia e superiore
⁽¹⁾ with a running pump suitable for single, double and superior water supplies

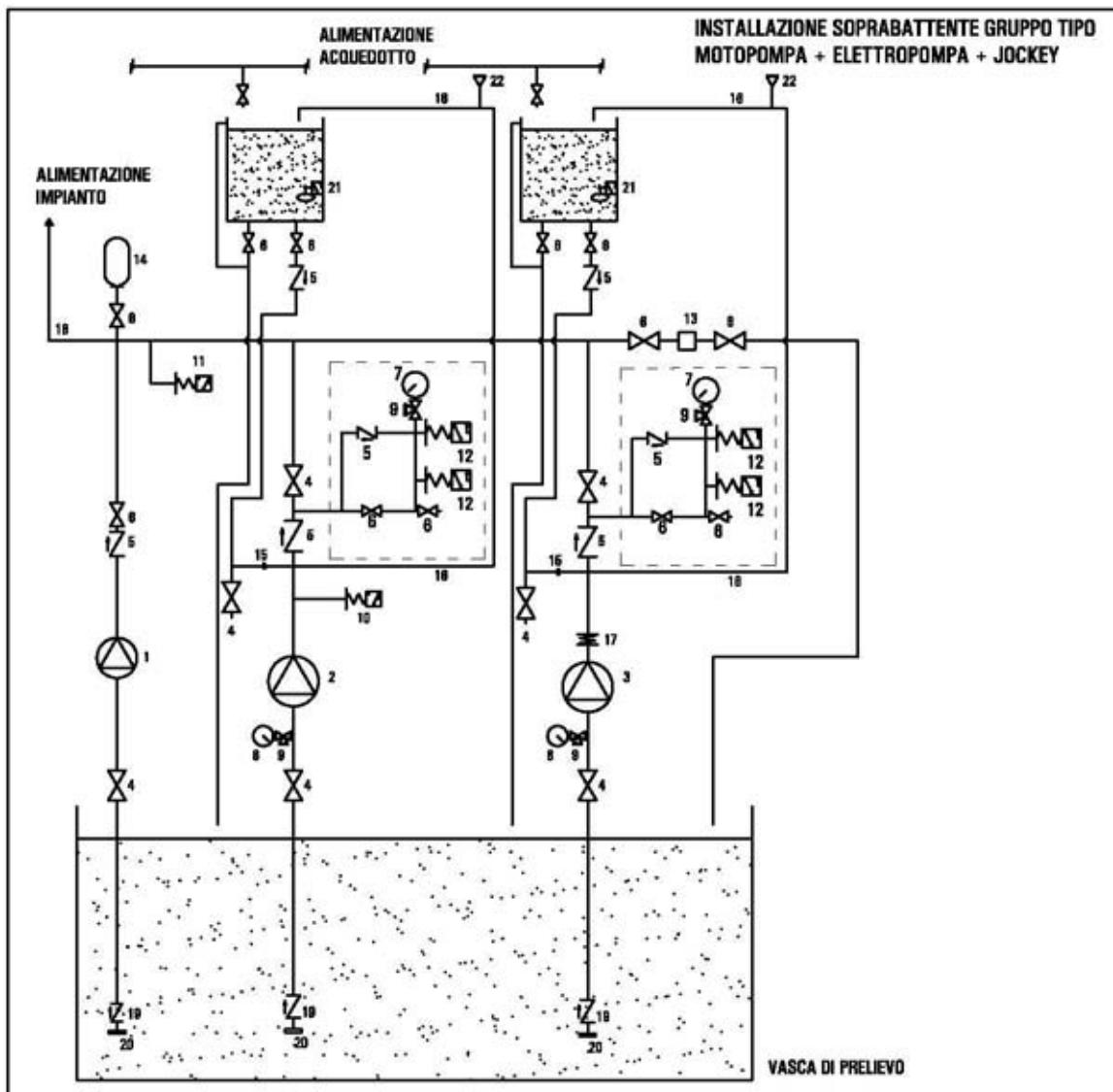
MISURE D'INGOMBRO: EN.21-SA
OVERALL DIMENSIONS: EN.21-SA



| Mod | dimens. in mm | | | | | | | | | Rif / Ref. Asam |
|---------------------------------|---------------|-----|-----|------|----|----|-------|----|-----|--------------------|
| | L1 | P1 | H5 | L3 | D1 | D2 | D4 | F | L2 | |
| END21-SA615/4+SCMPL55/80 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | o |
| END21-SA615/5+SCM4PL 55/105 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | o |
| END21-SA615/6+SCM4PLUS55-105 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | o |
| END21-SA625/4 + SCM4PLUS 55/80 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| END21-SA625/6+SCM4PL 55/105 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| END21-SA625/8+SCM4PL 75/140 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| END21-SA630/4+SCM4PL 55/80 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| END21-SA630/5+SCM4PL 55/105 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| ENR21-SA630/8+SCM4PL 55/105 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | p |
| END21-SA650/4+SCM4PL 55/80 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | d |
| ENR21-SA650/6+SCM4PL 55/105 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | d |
| ENR21-SA 650-9+SCM4 Plus 75/140 | 940 | 500 | 210 | 1040 | 4" | 3" | 1"1/4 | 80 | 370 | d |

Rif/Ref. Asam: v. accessori / see accessories

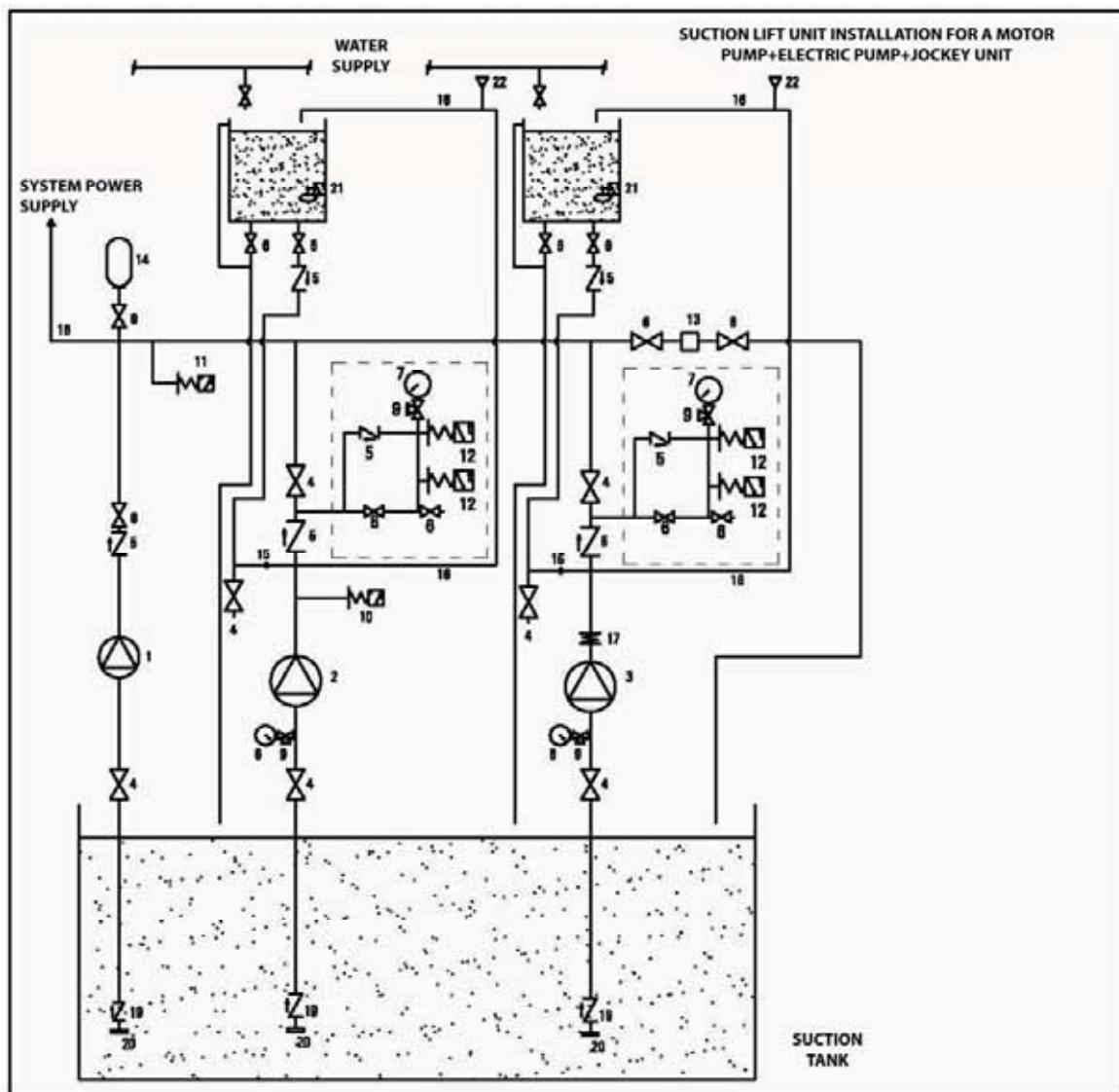
Esempio di schema idraulico di un gruppo antincendio EN12845 con elettropompa, motopompa e pompa pilota



| | | | |
|----|---------------------------------------|----|-----------------------------------|
| 1 | POMPA JOCKEY | 12 | PRESSOSTATO AVVIAMENTO SERVIZIO |
| 2 | ELETTROPOMPA DI SERVIZIO | 13 | MISURATORE DI PORTATA |
| 3 | MOTOPOMPA | 14 | IDROTUBA |
| 4 | VALVOLA DI SEZIONAMENTO LUCCHETTABILE | 15 | ATTACCO SERBATTOIO DI ADESCAMENTO |
| 5 | VALVOLA DI NON RITORNO | 16 | RICIRCOLO |
| 6 | VALVOLA DI SEZIONAMENTO | 17 | COMPENSATORE MOTOPOMPA |
| 7 | MANOMETRO | 18 | COLLETTORE DI MANDATA |
| 8 | MANOVUOTOMETRO | 19 | VALVOLA DI FONDO |
| 9 | RUBINETTO 3 VIE CON FLANGIA PROVA | 20 | PIASTRA ANTI VORTICE |
| 10 | BULBO ELETTROPOMPA | 21 | INTERRUTTORE A GALLEGIANTE |
| 11 | PRESSOSTATO JOCKEY | 22 | VALVOLA DI SFUATO ARIA |

| SIMBOLI | DESCRIZIONE | SIMBOLI | DESCRIZIONE |
|---------|-------------------------|---------|-----------------------------------|
| | POMPA | | IDROTUBA |
| | PRESSOSTATO | | VALVOLA DI NON RITORNO |
| | VALVOLA DI SEZIONAMENTO | | COMPENSATORE |
| | FLUSSIMETRO | | MANOVUOTOMETRO |
| | MANOMETRO | | RUBINETTO 3 VIE CON FLANGIA PROVA |
| | PIASTRA ANTI VORTICE | | INTERRUTTORE A GALLEGIANTE |

Example of a hydraulic diagram for an EN 12845 fire-fighting unit with electric pump, motor pump and pilot pump

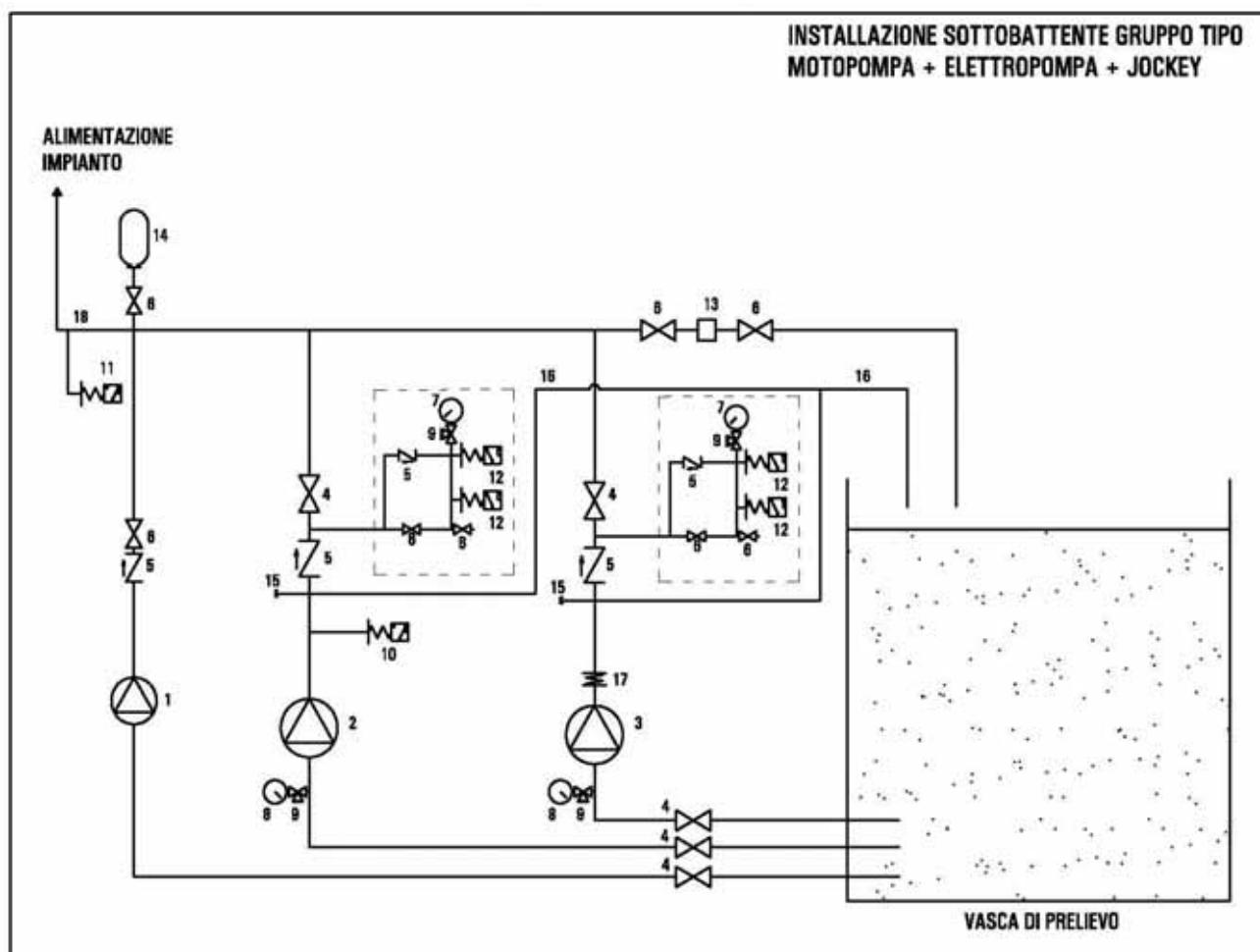


| | | | |
|----|----------------------------|----|---------------------------------|
| 1 | JOCKEY PUMP | 12 | SERVICE START-UP PRESSURE GAUGE |
| 2 | ELECTRIC DUTY PUMP | 13 | FLOW METER |
| 3 | MOTOR PUMP | 14 | HYDROTUBE |
| 4 | LOCKABLE SECTION VALVE | 15 | PRIMING TANK CONNECTION |
| 5 | ONE-WAY VALVE | 16 | RE-CIRCULATION |
| 6 | SECTION VALVE | 17 | MOTOR PUMP COMPENSATOR |
| 7 | MANOMETER | 18 | DELIVERY MANIFOLD |
| 8 | VACUUM PRESSURE GAUGE | 19 | FOOT VALVE |
| 9 | 3-WAY TAP WITH TEST FLANGE | 20 | ANTI-VORTEX PLATE |
| 10 | ELECTRIC PUMP BULB | 21 | FLOAT SWITCH |
| 11 | JOCKEY PRESSURE GAUGE | | |

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|-------------------|--------|----------------------------|
| | PUMP | | HYDROTUBE |
| | PRESSURE GAUGE | | ONE-WAY VALVE |
| | SECTION VALVE | | COMPENSATOR |
| | FLOW METER | | VACUUM PRESSURE GAUGE |
| | MANOMETER | | 3-WAY TAP WITH TEST FLANGE |
| | ANTI-VORTEX PLATE | | FLOAT SWITCH |



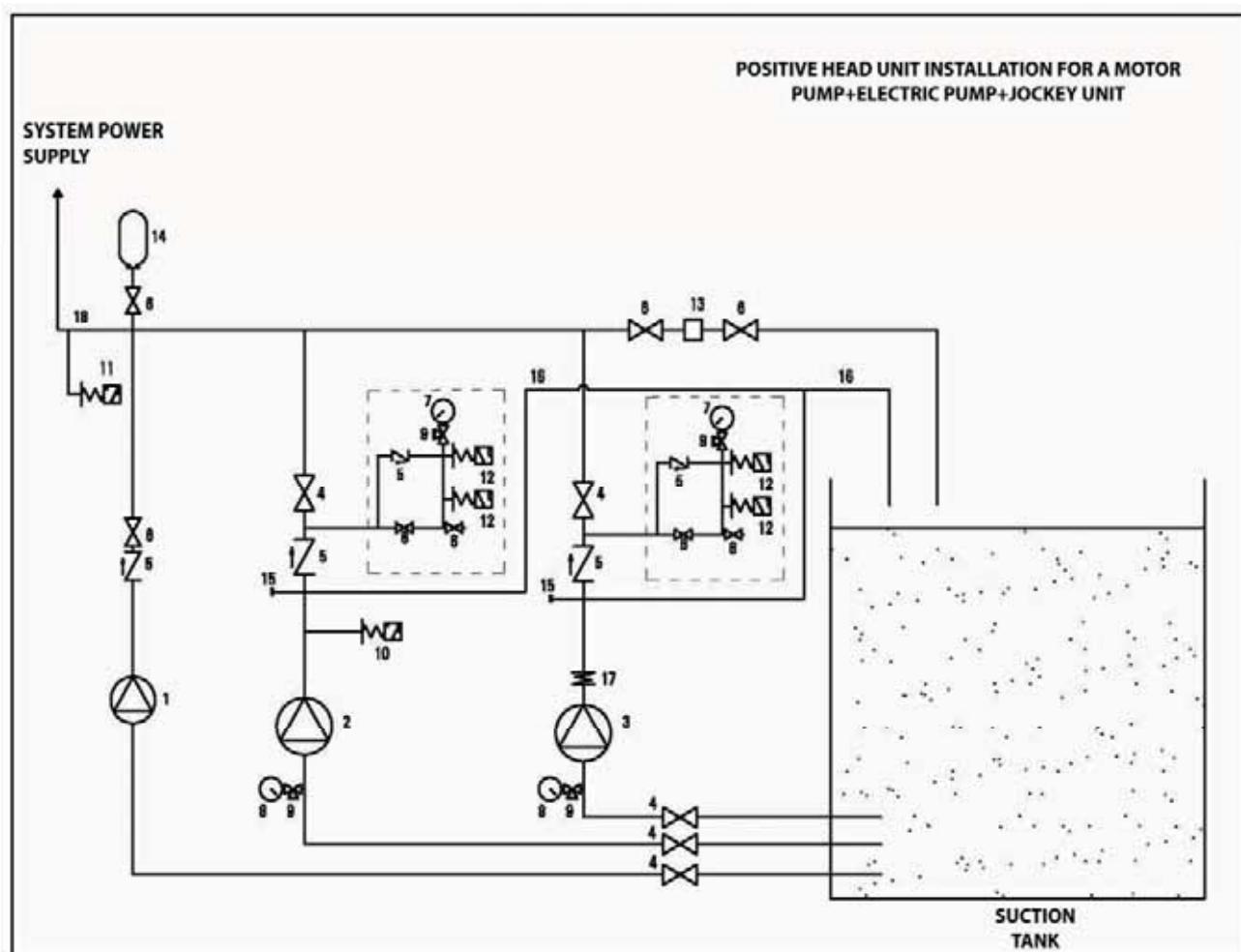
Esempio di schema idraulico di un gruppo antincendio EN12845 con due elettropompe e pompa pilota



| | | | |
|---|---------------------------------------|----|----------------------------------|
| 1 | POMPA JOCKEY | 10 | BULBO ELETTROPOMPA |
| 2 | ELETTROPOMPA DI SERVIZIO | 11 | PRESSOSTATO JOCKEY |
| 3 | MOTOPOMPA | 12 | PRESSOSTATO AVVIAMENTO SERVIZIO |
| 4 | VALVOLA DI SEZIONAMENTO LUCCHETTABILE | 13 | MISURATORE DI PORTATA |
| 5 | VALVOLA DI NON RITORNO | 14 | IDROTUBA |
| 6 | VALVOLA DI SEZIONAMENTO | 15 | ATTACCO SERBATOIO DI ADESCAMENTO |
| 7 | MANOMETRO | 16 | RICIRcolo |
| 8 | MANOVUOTOMETRO | 17 | COMPENSATORE MOTOPOMPA |
| 9 | RUBINETTO 3 VIE CON FLANGIA PROVA | 18 | COLLETTORE DI MANDATA |

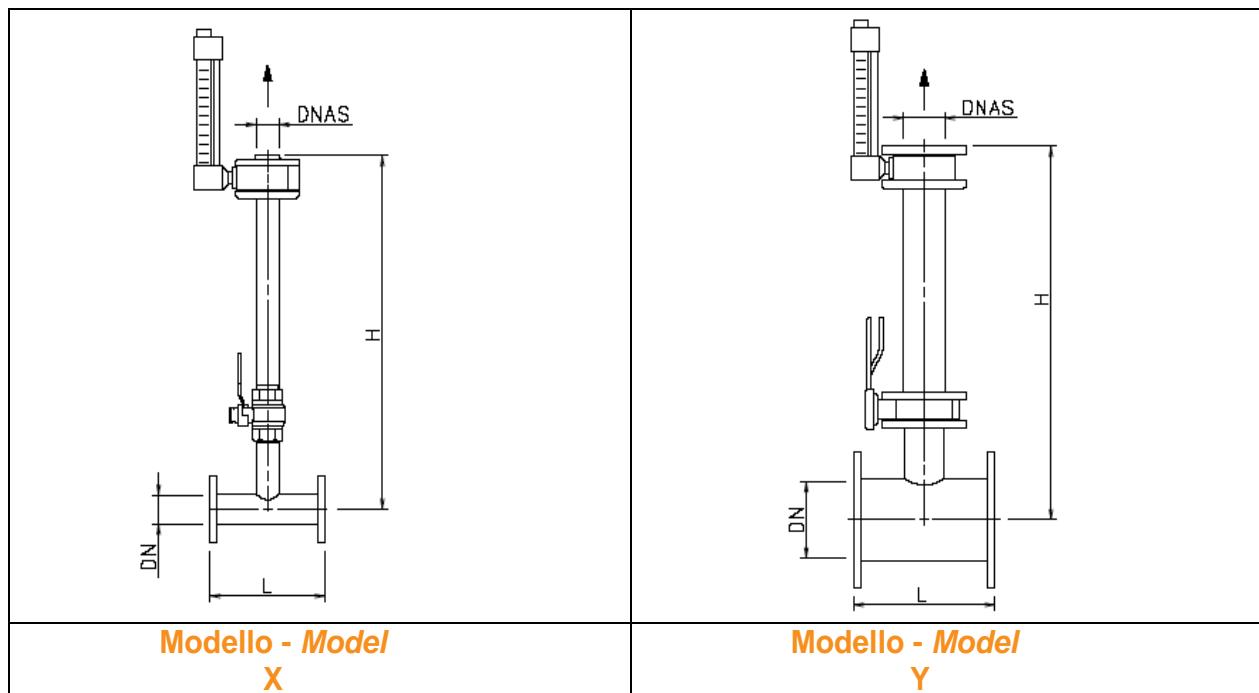
| SIMBOLo | DESCRIZIONE | SIMBOLo | DESCRIZIONE |
|---------|-------------------------|---------|-----------------------------------|
| | POMPA | | IDROtUBA |
| | PRESSOSTATO | | VALVOLA DI NON RITORNO |
| | VALVOLA DI SEZIONAMENTO | | COMPENSATORE |
| | FLUSSIMETRO | | MANOVUOTOMETRO |
| | MANOMETRO | | RUBINETTO 3 VIE CON FLANGIA PROVA |

Example of a hydraulic diagram for an EN 12845 fire-fighting unit with two electric pumps and pilot pump



| | | | |
|---|----------------------------|----|---------------------------------|
| 1 | JOCKEY PUMP | 10 | ELECTRIC PUMP BULB |
| 2 | ELECTRIC DUTY PUMP | 11 | JOCKEY PRESSURE GAUGE |
| 3 | MOTOR PUMP | 12 | SERVICE START-UP PRESSURE GAUGE |
| 4 | LOCKABLE SECTION VALVE | 13 | FLOW METER |
| 5 | ONE-WAY VALVE | 14 | HYDROTUBE |
| 6 | SECTION VALVE | 15 | PRIMING TANK CONNECTION |
| 7 | MANOMETER | 16 | RE-CIRCULATION |
| 8 | VACUUM PRESSURE GAUGE | 17 | MOTOR PUMP COMPENSATOR |
| 9 | 3-WAY TAP WITH TEST FLANGE | 18 | DELIVERY MANIFOLD |

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|----------------|--------|----------------------------|
| | PUMP | | HYDROTUBE |
| | PRESSURE GAUGE | | ONE-WAY VALVE |
| | SECTION VALVE | | COMPENSATOR |
| | FLOW METER | | VACUUM PRESSURE GAUGE |
| | MANOMETER | | 3-WAY TAP WITH TEST FLANGE |

**ACCESSORI
ACCESSORIES**
**Tabella kit misuratore di portata
Flow meter kit table**


| Mod | DN | DNAS | H | L | Qmax (m³/h) | Rif |
|-----|-------|-------|------|-----|-------------|-----|
| X | DN65 | DN40 | 655 | 170 | 25 | a |
| X | DN80 | DN50 | 665 | 170 | 50 | b |
| X | DN65 | DN50 | 690 | 170 | 50 | c |
| Y | DN100 | DN65 | 710 | 200 | 100 | d |
| Y | DN100 | DN65 | 760 | 200 | 80 | e |
| Y | DN125 | DN80 | 770 | 200 | 150 | f |
| Y | DN125 | DN80 | 770 | 200 | 130 | g |
| Y | DN200 | DN100 | 770 | 200 | 280 | h |
| Y | DN150 | DN100 | 935 | 200 | 280 | i |
| Y | DN200 | DN125 | 960 | 200 | 350 | l |
| Y | DN250 | DN150 | 1000 | 200 | 450 | m |
| Y | DN300 | DN200 | 1060 | 200 | 800 | n |
| Y | DN100 | DN40 | 710 | 200 | 25 | o |
| Y | DN100 | DN50 | 710 | 200 | 50 | p |

Il misuratore di portata è fornito con un kit di montaggio.

Il kit è composto da: misuratore di portata a lettura diretta, valvola di sezionamento, tubazione di connessione allo strumento e tubazione da collegare direttamente al collettore di mandata. Per il corretto accoppiamento con il gruppo di pressione verificare il riferimento nelle tabelle dimensioni dei gruppi.

The flow meter is provided with an assembly kit.

The kit contains: a flow meter for direct readings, a sectioning valve, a pipe to connect to the instrument and piping to be connected directly to the delivery manifold. To connect the pressure unit correctly, check the unit size tables.

Dati tecnici motore diesel
Technical information for the diesel motor

| Mod. idraulica Hydraulic model | Giri/min rpm | Nr Cilindri Cylinders | cm3 | HP | kW NB (3000 g/m) | Kw NA (3000 g/m) | Batter. Amp/h | Consumo Consumpt. LT/h | Consumo Consumpt. 3H | Serbatoio Tank lt | Consumo Consumpt. 4H | Serbatoio Tank lt | Consumo Consumpt. 6H | Serbatoio Tank lt |
|-----------------------------------------|-----------------|-----------------------------|------|------|------------------------|------------------------|------------------|------------------------------|----------------------------|-------------------------|----------------------------|-------------------------|----------------------------|-------------------------|
| 32x160A | 3000 | 1 | 401 | 10 | 6,6 | 6,2 | 2 X 50 A | 1,63 | 4,89 | 20,00 | 6,53 | 20,00 | 9,79 | 20,00 |
| 32x200C | 3000 | 1 | 401 | 10 | 6,6 | 6,2 | 2 X 50 A | 1,63 | 4,89 | 20,00 | 6,53 | 20,00 | 9,79 | 20,00 |
| 32x200B | 3000 | 1 | 442 | 11 | 7,4 | 6,8 | 2 X 50 A | 1,79 | 5,37 | 20,00 | 7,16 | 20,00 | 10,74 | 20,00 |
| 32x200A | 3000 | 1 | 505 | 12 | 8,1 | 7,4 | 2 X 60 A | 1,95 | 5,84 | 20,00 | 7,79 | 20,00 | 11,68 | 20,00 |
| 40x160A | 3000 | 1 | 401 | 10 | 6,6 | 6,2 | 2 X 50 A | 1,63 | 4,89 | 20,00 | 6,53 | 20,00 | 9,79 | 20,00 |
| 40x200C | 3000 | 1 | 442 | 11 | 7,4 | 6,8 | 2 X 50 A | 1,79 | 5,37 | 20,00 | 7,16 | 20,00 | 10,74 | 20,00 |
| 40x200B | 3000 | 1 | 505 | 12 | 8,1 | 7,4 | 2 X 60 A | 1,95 | 5,84 | 20,00 | 7,79 | 20,00 | 11,68 | 20,00 |
| 40x200A | 3000 | 2 | 851 | 19 | 13 | 12 | 2 X 100 A | 3,16 | 9,47 | 20,00 | 12,63 | 20,00 | 18,95 | 50,00 |
| 40x250C | 3000 | 2 | 851 | 19 | 13 | 12 | 2 X 100 A | 3,16 | 9,47 | 20,00 | 12,63 | 20,00 | 18,95 | 50,00 |
| 40x250B | 3000 | 2 | 1248 | 28,5 | 19,2 | 17,7 | 2 X 100 A | 4,63 | 13,89 | 20,00 | 18,53 | 50,00 | 27,79 | 50,00 |
| 40x250A | 3000 | 2 | 1870 | 42 | 28,6 | 26,3 | 2 X 100 A | 6,13 | 18,39 | 50,00 | 24,53 | 50,00 | 36,79 | 50,00 |
| 50x160A | 3000 | 1 | 505 | 12 | 8,1 | 7,4 | 2 X 60 A | 1,95 | 5,84 | 20,00 | 7,79 | 20,00 | 11,68 | 20,00 |
| 50x200C | 3000 | 1 | 505 | 12 | 8,1 | 7,4 | 2 X 60 A | 1,95 | 5,84 | 20,00 | 7,79 | 20,00 | 11,68 | 20,00 |
| 50x200B | 3000 | 2 | 851 | 19 | 13 | 12 | 2 X 100 A | 3,16 | 9,47 | 20,00 | 12,63 | 20,00 | 18,95 | 50,00 |
| 50x200A | 3000 | 2 | 954 | 23 | 15,7 | 14,5 | 2 X 100 A | 3,39 | 10,18 | 20,00 | 13,58 | 20,00 | 20,37 | 50,00 |
| 50x250D | 3000 | 2 | 1248 | 28,5 | 19,2 | 17,7 | 2 X 100 A | 4,63 | 13,89 | 20,00 | 18,53 | 50,00 | 27,79 | 50,00 |
| 50x250C | 3000 | 2 | 1870 | 42 | 28,6 | 26,3 | 2 X 100 A | 6,13 | 18,39 | 50,00 | 24,53 | 50,00 | 36,79 | 50,00 |
| 50x250B | 3000 | 2 | 1870 | 42 | 28,6 | 26,3 | 2 X 100 A | 6,13 | 18,39 | 50,00 | 24,53 | 50,00 | 36,79 | 50,00 |
| 50x250A | 3000 | 3 | 2081 | 50 | 37 | 33 | 2 X 100 A | 6,66 | 19,98 | 50,00 | 26,64 | 50,00 | 39,96 | 50,00 |
| 65x160B | 3000 | 2 | 851 | 19 | 13 | 12 | 2 X 100 A | 3,16 | 9,47 | 20,00 | 12,63 | 20,00 | 18,95 | 50,00 |
| 65x160A | 3000 | 2 | 1248 | 28,5 | 19,2 | 17,7 | 2 X 100 A | 4,63 | 13,89 | 20,00 | 18,53 | 50,00 | 27,79 | 50,00 |
| 65x200C | 3000 | 2 | 1870 | 42 | 28,6 | 26,3 | 2 X 100 A | 6,13 | 18,39 | 50,00 | 24,53 | 50,00 | 36,79 | 50,00 |
| 65x200B | 3000 | 2 | 1870 | 42 | 28,6 | 26,3 | 2 X 100 A | 6,13 | 18,39 | 50,00 | 24,53 | 50,00 | 36,79 | 50,00 |
| 65x200A | 3000 | 3 | 2081 | 50 | 37 | 33 | 2 X 100 A | 6,66 | 19,98 | 50,00 | 26,64 | 50,00 | 39,96 | 50,00 |
| 65x250C | 3000 | 3 | 2081 | 50 | 37 | 33 | 2 X 100 A | 6,66 | 19,98 | 50,00 | 26,64 | 50,00 | 39,96 | 50,00 |
| 65x250B | 3000 | 3 | 2081 | 72 | 53 | 48 | 2 X 100 A | 9,87 | 29,61 | 50,00 | 39,48 | 50,00 | 59,22 | 90,00 |
| 65x250A | 3000 | 3 | 2081 | 72 | 53 | 48 | 2 X 100 A | 9,87 | 29,61 | 50,00 | 39,48 | 50,00 | 59,22 | 90,00 |
| 80x160A | 3000 | 2 | 1870 | 42 | 28,6 | 26,3 | 2 X 100 A | 6,13 | 18,39 | 50,00 | 24,53 | 50,00 | 36,79 | 50,00 |
| 80x200C | 3000 | 2 | 1870 | 42 | 28,6 | 26,3 | 2 X 100 A | 6,13 | 18,39 | 50,00 | 24,53 | 50,00 | 36,79 | 50,00 |
| 80x200B | 3000 | 3 | 2081 | 50 | 37 | 33 | 2 X 100 A | 6,66 | 19,98 | 50,00 | 26,64 | 50,00 | 39,96 | 50,00 |
| 80x200A | 3000 | 3 | 2081 | 72 | 53 | 48 | 2 X 100 A | 9,87 | 29,61 | 50,00 | 39,48 | 50,00 | 59,22 | 90,00 |
| 80x250D | 3000 | 3 | 2081 | 72 | 53 | 48 | 2 X 100 A | 9,87 | 29,61 | 50,00 | 39,48 | 50,00 | 59,22 | 90,00 |
| 80x250C | 3000 | 3 | 2081 | 72 | 53 | 48 | 2 X 100 A | 9,87 | 29,61 | 50,00 | 39,48 | 50,00 | 59,22 | 90,00 |
| 80x250B | 3000 | 4 | 2776 | 93 | 68 | 62 | 2 X 100 A | 11,22 | 33,66 | 50,00 | 44,88 | 50,00 | 67,32 | 90,00 |
| 80x250A | 3000 | 6 | 4164 | 140 | 103 | 94 | 2 X 160 A | 17,67 | 53,01 | 90,00 | 70,68 | 90,00 | 106,02 | 125,00 |
| 100x200D | 3000 | 2 | 1870 | 42 | 28,6 | 26,3 | 2 X 100 A | 6,13 | 18,39 | 50,00 | 24,53 | 50,00 | 36,79 | 50,00 |
| 100x200C | 3000 | 3 | 2081 | 50 | 37 | 33 | 2 X 100 A | 6,66 | 19,98 | 50,00 | 26,64 | 50,00 | 39,96 | 50,00 |
| 100x200B | 3000 | 3 | 2081 | 72 | 53 | 48 | 2 X 100 A | 9,87 | 29,61 | 50,00 | 39,48 | 50,00 | 59,22 | 90,00 |
| 100x200A | 3000 | 3 | 2081 | 72 | 53 | 48 | 2 X 100 A | 9,87 | 29,61 | 50,00 | 39,48 | 50,00 | 59,22 | 90,00 |
| 100x250D | 3000 | 3 | 2081 | 72 | 53 | 48 | 2 X 100 A | 9,87 | 29,61 | 50,00 | 39,48 | 50,00 | 59,22 | 90,00 |
| 100x250C | 3000 | 4 | 2776 | 93 | 68 | 62 | 2 X 100 A | 11,22 | 33,66 | 50,00 | 44,88 | 50,00 | 67,32 | 90,00 |
| 100x250B | 3000 | 6 | 4164 | 140 | 103 | 94 | 2 X 160 A | 17,67 | 53,01 | 90,00 | 70,68 | 90,00 | 106,02 | 125,00 |
| 100x250A | 3000 | 6 | 4164 | 140 | 103 | 94 | 2 X 160 A | 17,67 | 53,01 | 90,00 | 70,68 | 90,00 | 106,02 | 125,00 |

**ALIMENTAZIONI
WATER SUPPLY**

La norma UNI EN12845 descrive al punto 9.6 la scelta del tipo di alimentazioni da utilizzare secondo la pericolosità dell'area da proteggere:

- **Alimentazioni idriche singole**

- Un acquedotto
- Un acquedotto con una o più pompe di surpressione
- Un serbatoio in pressione (solo per LH e OH1)
- Un serbatoio a gravità
- Un serbatoio di accumulo con una o più pompe
- Una sorgente inesauribile con una o più pompe

- **Alimentazioni idriche singole superiori**

Alimentazioni idriche singole con elevato grado di affidabilità

- Un acquedotto alimentato da entrambi le estremità
- Un serbatoio a gravità senza pompa di surpressione, oppure un serbatoio di accumulo con due o più pompe
- Una sorgente inesauribile con due o più pompe

- **Alimentazioni idriche doppie**

Consistono in due alimentazioni singole in cui ogni alimentazione è indipendente dall'altra

- **Alimentazioni idriche combinate**

Devono essere delle alimentazioni idriche singole superiori o doppie, progettate per alimentare più di un impianto fisso antincendio.

Point 9.6 of the UNI EN 12845 standards describe the type of water supply to be used, in accordance with the level of hazard in the area to be protected:

- **Single water supplies**

- A water supply system
- A water supply system with one or more suppression pumps
- A pressurised tank (only for LH and OH1)
- A gravity tank
- A storage tank with one or more pumps
- An inexhaustible source with one or more pumps

- **Single superior water supplies**

Single water sources with an elevated level of reliability

- An water supply system fed from both ends
- A gravity tank without a suppression pump, or a storage tank with two or more pumps
- An inexhaustible source with two or more pumps

- **Double water supplies**

Two individual sources where each is independent from the other

- **Combined water sources**

Single, superior or double water supplies, designed to supply more than one fixed fire-fighting system.

In riferimento ad installazioni con più pompe (EN12845 – cap.10 Pompe) la norma descrive le caratteristiche del gruppo di pompaggio; le pompe devono lavorare in parallelo e avere curve compatibili.

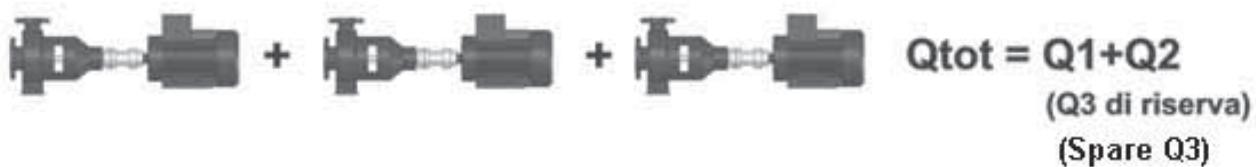
Dove vengono installate due pompe, ognuna deve essere in grado di fornire il 100% della prestazione. Dove sono installate tre pompe ogni pompa deve essere in grado di fornire almeno il 50% della prestazione.

Con alimentazione idrica superiore e doppia non più di una pompa può essere comandata da un motore elettrico.

With reference to installations with more than one pump (EN 12845 - Chapter 10, Pumps), the standards describe the features of the pumping unit, where pumps must work in a parallel manner, and must have compatible curves.

If two pumps are installed, each pump must be able to provide 100% of the water: If three pumps are installed, each pump must be able to provide 50% of the water:

No more than one pump can be powered with an electric motor in case of double and superior water supplies.



**MODULO PER RICHIESTE DI OFFERTA
OFFER REQUEST FORM**

| | | | | | | | |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------|---------------------------|--------|-------------------|----|
| MITTENTE SENDER | timbro del richiedente/applicant's stamp | | | | c/c: | | |
| | società/company | | | | | | |
| sede/office | | reparto/dept. | | Rif.progetto/project ref. | | | |
| sig/Mr. | | | | | | | |
| Tel/ph. | | fax | | ID richiesta/request | | | |
| e-mail | | | | | | | |
| DIMENSIONAMENTO DIMENSIONS | applicazione <i>application</i> | UNI EN12845 | sistemi automatici a sprinkler <i>autom. Sprinkler systems</i> | | SI/YES | NO | |
| | | UNI10779 | reti idranti <i>hydrants network</i> | | SI/YES | NO | |
| | punto di lavoro (per singolo pompa) <i>working points (for each pump)</i> | | | | Q | m ³ /h | |
| | | | | | H | bar | |
| | tipo di alimentazione adottata <i>type of supply</i> | | idrica singola/ <i>single</i> | | SI/YES | NO | |
| | | | idrica singola superiore <i>single superior</i> | | SI/YES | NO | |
| | | | idrica doppia/ <i>double</i> | | SI/YES | NO | |
| | configurazione gruppo di pressione <i>pressure unit configuration</i> | elettr. di servizio (elettrica) <i>duty pump (electric)</i> | n. | | | | |
| | | motopompa diesel <i>diesel motor pump</i> | n. | | | | |
| | | elettr. Pilota <i>pilot electric pump</i> | | | SI/YES | NO | |
| sigla gruppo EN <i>unit name</i> | | | | | | | |
| installazione soprabattente <i>suction lift unit installation</i> | | | | SI/YES | NO | | |
| installazione sottobattente <i>positive head unit installation</i> | | | | SI/YES | NO | | |
| altro (specificare) / other | | | | | | | |
| ACCESSORI ACCESSORIES | quadro allarmi remotabile elettropompa di servizio <i>remote alarm panel electr. duty pump</i> | | | | SI/YES | NO | |
| | quadro allarmi remotabile motopompa di servizio <i>remote alarm panel duty motor pump</i> | | | | SI/YES | NO | |
| | kit misuratore di portata <i>flow meter kit</i> | | | | SI/YES | NO | |
| | vaso espansione 24 l (solo in presenza di pompa pilota) <i>expansion tank 24 l (only with pilot pump)</i> | | | | SI/YES | NO | |
| | kit lucchetti serraggio valvola <i>valve locking kit</i> | | | | SI/YES | NO | |
| | serbatoio di adescamento (500 l) <i>priming tank (500 l)</i> | | | | SI/YES | NO | |
| | serbatoio diesel (secondo livello di pericolosità-vedi tabella consumo motori) <i>diesel tank (according to the hazard level-see motor consumption table)</i> | | | | 3h | SI/YES | NO |
| | | | | | 4h | SI/YES | NO |
| | | | | | 6h | SI/YES | NO |
| | specificare sinteticamente la richiesta diversa dallo standard / provide a brief description of your request, if different from the standard | | | | | | |
| NOTE | | | | | | | |
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| VERSIONE "RC" RICHIEDENTE "RC" VERSION APPLICANT'S | | | | | | | |

I dati tecnici riportati nel presente catalogo sono forniti a titolo indicativo e possono differire da quelli definitivi. Pentair Water Italy S.r.l. si riserva la facoltà di modificare le caratteristiche descritte senza darne preavviso, qualora lo ritenga necessario.

Technical data subject to change without notice.

Pentair Water Italy S.r.l. reserves the right to carry out modifications to its products at any time without having to provide prior notice.



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