

HOTTY

POMPE DE CALDURA AER APA PENTRU EXTERIOR
Temperaturi inalte - Eficienta ridicata

FREON R407c

Pf = 7,6 ÷ 21,7 kW

Pt = 9,1 ÷ 24,8 kW

Mod. 031 ÷ 081

Temperatura maxima apa 60 °C



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HOTTY

CARACTERISTICI PRINCIPALE

HOTTY este o pompa de caldura aer apa conceputa pentru utilizarea in cladiri rezidentiale sau comerciale, noi sau renovate.

Utilizeaza tehnologia E.V.I. (cu injectie de vapori), care le permite extinderea semnificativa a limitelor de operare.

Aceasta metoda asigura o eficienta ridicata prin utilizarea sistemelor de climatizare de tip radiant. Mai mult, ofera rezultate excelente cand este instalata in cladiri renovate, unde adesea este necesara incalzirea agentului termic la temperaturi ridicate cand conditiile climatice exterioare sunt severe.

HOTTY transfera energia naturala din exterior catre mediu din interior, asigurand conditii climatice ideale pe tot timpul anului si furnizand necesarul de apa calda menajera pentru fiecare zi.

Pompele de caldura Hotty sunt echipate standard cu un kit hidronic si utilizeaza un nou dispozitiv de reglare ce permite functionarea excelenta fara a mai fi necesara instalarea unui vas de acumulare inertial. Aceasta solutie faciliteaza instalarea, reducand spatiul si costurile relative precum si dispersia inutila de caldura catre exterior. Pompele de caldura Hotty pot functiona cu temperaturi de pana la -20°C, incalzind apa la temperaturi inalte (max 60°C). Controlul ventilatiei optimizeaza functionarea chiar si cand temperatura exterioara este scazuta si, in acelasi timp, reduce nivelul de zgomot cand functioneaza pe timpul noptii.

Dispozitivul de control electronic asigura incalzirea apei menajere cu prioritate si permite setarea unor niveluri diferite de temperatura pentru agentul termic si A.C.M .

Produsul a fost creat utilizand cele mai noi tehnologii si a fost testat in laboratoare pentru a garanta eficienta si fiabilitate in timp.

CARACTERISTICI TEHNICE

Cadru de sustinere. Unitatile sunt asamblate pe un cadru realizat in totalitate din tabla de otel galvanizat cu panouri detasabile pentru o intretinere usoara, fiind vopsite cu pudra din poliester RAL 9018.

Compressorul este de tip scroll ermetic cu sistem avansat de injectie a vaporilor, fiind indicat pentru aplicatii rezidentiale de aer conditionat, furnizand eficienta ridicata si functionand la un nivel redus de zgomot. Motorul este instalat pe un suport anti-vibratii si este protejat cu o siguranta automata.

Condensatorul este realizat din tuburi de cupru cu aripioare din aluminiu, iar suportul schimbatorului de caldura este realizat din otel zincat.

La cerere, pot fi furnizate si versiuni cu aripioare din cupru sau aluminiu prevopsite, pentru instalarea in spatii cu conditii de lucru dure.

HOTTY

MAIN FEATURES

HOTTY is a reversible air to water heat pump designed for use in new or refurbished residential and commercial buildings.

It uses E.V.I. (Enhanced Vapour Injection) technology, which allows significantly extend the operating limits of the appliance.

This method provides an high-energy efficiency using ray air conditioning systems.

Moreover, it provides excellent results when installed in renovated buildings where it is often necessary to heat water to high temperatures when outdoor climatic conditions are severe.

Hotty conveys the natural energy in the air to the home environment, providing ideal climatic conditions all year round and supplying the domestic hot water required on a day-to-day basis

Hotty units are equipped with hydronic kits standard onboard the machine and use a new regulation device that allows excellent operation without the need to install an inertial accumulation tank. This ready-to-use solution facilitates installation, reducing space and the relative costs in addition to avoiding the useless dispersion of heat to the outside.

Hotty heat pumps are able to operate with very strict ambient air temperatures (down to -20 °C) by heating the water at high temperature (60 °C max)

Hotty units have a ventilation control that optimizes operation even with low outside air temperatures and, at the same time, reduces noise when operating at night.

The electronic control device manages the domestic water heating under priority and it allows different temperature set point setting to the user plant water and d.h.w. side.

The product was developed using the most current design technologies and tested in our laboratories to guarantee efficiency and absolute reliability over time.

The Hotty product line is another tile in our mosaic of hydronic products for air-conditioning that range from special hot/cold production units to plant terminal units.

UNIT TECHNICAL CHARACTERISTICS

Supporting Frame. The units are assembled on a frame made entirely of galvanized sheet metal with removable panels for easy maintenance and all painted with oven-baked RAL 9018 polyester powder.

Compressor leading brand hermetic scroll with E.V.I. (Enhanced Vapour Injection) particularly indicated for residential air-conditioning applications and able to provide high efficiency and, at the same time, decidedly modest levels of noise and vibration. Installed on vibration-damping supports, the motor is protected by a circuit-breaker.

Capacitor - made of

Anumite tevi, de la baza schimbatorului, sunt utilizate pentru agentul refrigerant pentru a ajuta la dezghetarea schimbatorului de caldura pe timpul iernii, cand temperaturile scad sub 0°C.

copper tubes in an aluminum finned pack and frame supporting the galvanized steel exchanger. On request, a version can be supplied with prepainted copper or aluminum fins for installation in especially aggressive environments.

Some pipes, on the bottom of the exchanger, are used for the coolant liquid to help defrost the heat exchanger during the winter period when air temperatures drops below 0 °C.

Evaporatorul de caldura in placi brazat este realizat din otel inoxidabil AISI316, cu izolatie anti-condens. Este furnizat cu racorduri filetate pentru o conectare usoara la instalatia clientului. La cerere, se furnizeaza si elemente incalzitoare anti-inghet.

Brazed Plate- evaporator AISI316 stainless steel made, insulated with a closed-cell anticondensate insulation. Provided with threaded water fittings for easy connection to the user's plant. Upon request, we also supply frost-prevention heating elements.

Schimbatorul secundar in placi brazat este utilizat pentru a vaporiza complet refrigerentul la intrarea in compresor. Caldura este transferata prin lichidul refrigerant colectat

Auxiliary brazed plate heat exchanger used to vaporize the refrigerant injection on the compressor. Heat is transferred through the liquid refrigerant collected on the main line.

pe circuitul principal.
Sectiunea de ventilatie este compusa din ventilator axial si motor cuplat direct la statorul rotativ. Ventilatorul este instalat pe un suport proiectat corespunzator pentru a garanta o performanta mai buna si este echipat cu grilaje de protectie realizate din otel galvanizat, fixate adevarat pe cadrul aparaturii cu elemente din cauciuc.

Fan section consists of fan / propeller blade set and the motor directly coupled to rotary stator. The fan is installed on a properly shaped nozzle to ensure better air performance and is equipped with safety protection grills made of galvanized steel suitably fixed to the machine frame with rubber mountings.

Circuitul frigorific este conectat si etans, fiind realizat cu conducte din cupru, inclusand: filtru dehidrator, electrovalva si valva termostatica pentru ciclul de injectie, valva cu 4 cai pentru inversiunea ciclului, presostat de siguranta cu egalizare externa, racorduri de presiune pentru umplere si golire lichid refrigerant si legarea eventuala a manometrelor de control. Traductorii de presiune LP si HP sunt furnizati standard. Partea cu presiune

Refrigeration circuit completed wired and sealed, made with copper tube, including:
dehydrator filter, thermostatic value with external equalization, safety pressure switch on the high and low pressure side, pressure fitting for filling and discharging refrigerant liquid and possible connection of control manometers. LP and HP transducers are supplied as standard. The low-pressure side is insulated with a thick, closed cell anti-condensation pad.

anti-condens.
Kitul hidronic include pompa de circulatie apa, vasul de expansiune, supapa de siguranta, presostatul diferential pentru controlul debitului de apa si conducte izolate cu elemente anti-condens.

Hydronic kit including the water pump, the expansion vessel, the safety valve, the differential pressostat to control the water flow and the piping insulated with high thickness closet cell anti-condensation pad.

Panoul electric este cablat complet si are carcasa din otel, fiind construit in conformitate cu cele mai riguroase standarde europene. Tensiunea de alimentare este: 400/3/50 V/ph/Hz.
Circuitul auxiliar are protectie separata.

Electrical panel completely wired inside a steel box constructed in conformity with the most rigorous European standards. The power circuit is prepared for 400/3/50 V/ph/Hz power. The auxiliary circuit has separate circuitbreaker protection. Regulation and control are handled by a microprocessor coupled to on-board or externally connected safety devices.
The programming, setting and control of operating parameters is performed directly on the display module located on the outside of the control panel

Reglarea si controlul sunt realizate de catre un microprocesor prin intermediul unor dispozitive externe de siguranta.
Progamarea, setarea si controlul parametrilor de functionare sunt realizate direct pe modulul de afisare localizat in afara panoului de control.

Functii principale de reglare:

- incalzire / racire si preparare apa calda menajera, cu prioritate asupra apei calde menajere;

Main regulation functions:

Main adaptive regulation functions:

- Heating / cooling and D.H.W. control with priority to the D.H.W.

In cooling mode, if domestic hot water is required, the system automatically handles the switching system to meet the heating temperature d.h.w. request to take back under the cooling operation.

- Compressor control as a function of the temperature of the return water or, upon request, the water output by the plant.

HOTTY

- controlul compresorului in functie de valoarea temperaturii de return a apei sau, la cerere, in functie de valoarea temperaturii de tur.
In modul de racire, daca este necesara producerea de apa calda menajera, sistemul manevreaza automat comutarea pentru a atinge temperatura apei calde menajere ceruta.

- puncte de setare automate si dinamice in concordanta cu temperatura ambientala

- diferite setari de temperatura pentru agentul termic si A.C.M

- vana cu 3 cai pentru a acorda prioritate apei calde menajere

- dezghetare dinamica in functie de temperatura externa

- controlul turatiei ventilatorului

Accesorii disponibile la cerere:

- MHL
manometre presiune inalta si joasa;

- RAE
vaporizator rezistent la inghet;

- SAB
suport anti-vibratii;

- KRC

kit cu telecomanda

- RCA

rezistenta compresor;

- SSC - pornire electronica
cu functia de limitare a valorilor curentului de intrare < 40 A
pentru modelele monofazate

- K3V - kit vana cu 3 cai

kit livrat separat , alcătuit din vana motorizată cu 3 cai și
senzor de temperatură NTC pentru a fi montat pe vasul
de apă caldă menajera.

- KRC - panou control ambient

Panou de control cu urmatoarele functii:

ON/OFF, vară-iarnă, setare timp de funcționare după ceas,
vizualizare temperaturi.

- KRI (1) - incalzitor electric pentru apă caldă menajera

- KRI (2) - incalzitor electric cu anti-inghet

Accesorii instalate din fabrica: Tava de colectare a condensului
incalzita electric pentru prevenirea inghetului.

- Filtru Y

VAS DE ACUMULARE:

Kit livrat separat. Vas de acumulare asamblat într-un cadru de
otel pentru a fi montat sub unitate

(modelele 031-041-061, cu un volum de 70 litri) sau separat
pentru modelul 081, cu un volum de 100 litri.

- Automatic and dynamic set points according to the
ambient air temperature.

- Different temperature set points on user plant side and
D.H.W. side.

- Three way valve control (accessory) to provide priority to
D.H.W.

- Dynamic defrosting according to externe air temperature.

- Fan speed control

Accessories available upon request

:

- MHL
high and low-pressure gauges

- RAE
evaporator frost-resistance;

- SAB
basic vibration-damping supports;

- KRC
remote control kit;

- SSC
Electronic Soft Starter
with the function of limiting the inrush current values <40 A
for single phase units.

- K3V

Kit supplied separately, consisting of motorized three-way
valve ball type and NTC temperature sensor to be placed on
the d.h.w. vessel.

- KRC

Remote room control panel able to control the following
functions:

On/off control, summer-winter switching, working time
setting by clock, temperatures reading.

- KRI (1)

D.h.w. vessel integration electric heater.

- KRI(2)

Drain panel antifreeze Electric heater

Factory-installed accessory. It avoids water freezing
contained in the tank with low ambient air temperatures.

- KFR

Mesh water strainer

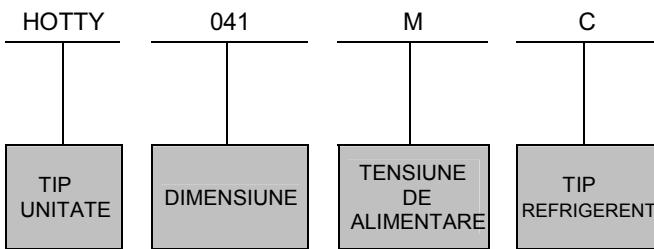
BUFFER TANK (user plant side)

Kit supplied separately. Water vessel assembled into a
steel supporting frame to be fitted under the unit (models
031-041-061) or separately on model 081

HOTTY

CONFIGURARE

Model: HOTTY 041MC



DIMENSIUNE 041

04 Dimensiune compresor in HP
1 Numar compresoare

TENSIUNE DE ALIMENTARE

M 230-1-50 V-ph-Hz
T 400-3-50 V-ph-Hz

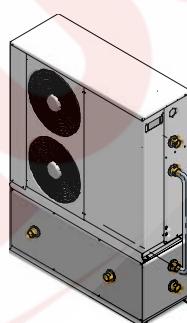
TIP REFRIGERENT

C R407C

VAS DE ACUMULARE (OPTIONAL)

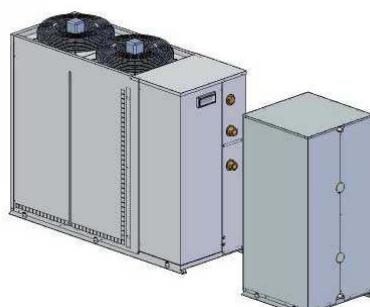
Toate modelele pot fi echipate cu rezervor de acumulare inertial situat la baza sau langa, in functie de model.

MODEL 031C-041C-041CM-061C
Instalare la baza



MODELS 031C-041C-041CM-061C
Bottom installation

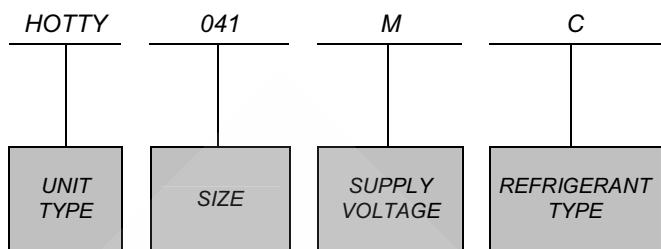
MODEL 081 C
Instalare laterală



MODEL 081 C
Side installation

CONFIGURATION

Sample: HOTTY 041MC



SIZE 041

04 Compressor size – HP –
1 N° of compressors

SUPPLY VOLTAGE

M 230-1-50 V-ph-Hz
T 400-3-50 V-ph-Hz

REFRIGERANT TYPE

C R407C

BUFFER TANK (OPTIONAL)

All models can be equipped with inertial storage water tank located under or next to the equipment according to the model

HOTTY

DATE TEHNICE

TECHNICAL DATA

MODEL	HOTTY	031MC	041MC	041TC	061TC	081TC
Capacitate de racire (1)	kW	7,6	11,5	11,6	16,3	21,7
Capacitate de incalzire (2)	kW	9,1	13,3	13,3	18,7	24,8
Compresor Scroll	nr	1	1	1	1	1
Circuite frigorifice	nr	1	1	1	1	1
Treapta de reglare a capacitatii	%	1	1	1	1	1
Tensiune de alimentare	V/Hz/Ph	230/1/50		400/3/50		
Nivel putere acustica	LwA (3)	dB(A)	47,5	48	48	48,5
Nivel presiune acustica	LpA (4)	dB(A)	75	75,5	75,5	76
COMPRESOR						
Putere consumata (1)	kW	2,7	3,8	3,6	5,1	6,8
Curent consumat (1)	A	13,7	20,5	6,5	10,6	13,2
Curent maxim	A	20,8	30,0	10,0	14,0	18,3
Curent consumat la pornire	A	97,0	160,0	64,0	92,0	99,0
SCHIMBATOR DE CALDURA						
Schimbator de caldura	nr	1	1	1	1	1
Debit de apa	l/s	0,36	0,55	0,56	0,78	1,04
Pierderi de presiune	kPa	6	7,1	7,3	14,2	14,5
VENTILATOR						
Ventilatoare	nr	2	2	2	2	2
Debit de aer	m3/s					
Numar de rotatii	min -1	890	890	890	890	890
Putere absorbita (1 singur ventilator)	kW	0,17	0,17	0,17	0,3	0,3
Curent absorbit (1 singur ventilator)	A	0,8	0,8	0,8	1,4	1,4
POMPA DE CIRCULATIE						
Presiune disponibila pompa	kPa	60	52	51	72	64
Putere absorbita pompa	kW	0,21	0,2	0,21	0,4	0,4
Curent absorbit pompa	A	1,0	1,0	1,0	2,0	2,0
CONSUMURI TOTALE						
Putere nominala (1)	kW	3,3	4,4	4,2	6,1	7,8
Curent nominal (1)	A	16,3	23,1	9,1	15,4	18,0
Curent maxim	A	23,4	32,6	12,8,1	18,8	2
Curent de pornire	A	100,0	163,0	67,0 5	97,0	10
VAS DE EXPANSIUNE						
Volum	l	6	6	6	6	10
Presiune maxima apa	kPa	300	300	300	300	300
Presiune de preincarcare	kPa	150	150	150	150	150
DIMENSIUNI - GREUTATE						
lungime	mm	1220		1420		1670
latime	mm	427		531		620
inaltime	mm	1115		1215		1400
greutate	Kg	158	183	186	223	282

(1) temp. ambientala 35°C - temp. apa iesire 7°C

(1) ambient temp. 35 °C - water temp. out 7 °C

(2) temp. ambientala 7°C / UR 85% - temp. apa iesire 35°C

(2) ambient temp. 7 °C / 85% RU - water t. Out 35 °C

(3) Conform cu ISO 3744

(3) According ISO 3744

(4) Masurat in camp liber la 10 m distanta

(4) measured in free field condition at 10 m distance

	Tu	35			40			45		
		Te bs/bu	PT	Pa	PaT	PT	Pa	PaT	PT	Pa
-20	4,53	1,82	2,14	4,56	1,94	2,26	4,61	2,08	2,40	
-15/-15,4	5,23	1,91	2,23	5,27	2,05	2,37	5,31	2,19	2,51	
-10/-10,5	6,03	1,99	2,31	6,06	2,14	2,46	6,10	2,30	2,62	
-5/-5,5	6,88	2,07	2,39	6,90	2,22	2,54	6,93	2,40	2,72	
0/-0,6	7,82	2,14	2,46	7,83	2,30	2,62	7,85	2,49	2,81	
2/1	8,15	2,16	2,48	8,15	2,33	2,65	8,17	2,52	2,84	
5/4	8,73	2,20	2,52	8,72	2,38	2,70	8,74	2,57	2,89	
7/6	9,08	2,23	2,55	9,07	2,41	2,73	9,08	2,61	2,93	
10/8,3	9,80	2,28	2,60	9,78	2,47	2,79	9,78	2,68	3,00	
15/13,5	11,08	2,34	2,66	11,04	2,55	2,87	11,02	2,77	3,09	
20/18,3	12,58	2,42	2,74	12,52	2,64	2,96	12,48	2,88	3,20	

HOTTY 031 M

	Tu	50			55			60		
		Te bs/bu	PT	Pa	PaT	PT	Pa	PaT	PT	Pa
-20	4,67	2,25	2,57	4,76	2,44	2,76				
-15/-15,4	5,37	2,38	2,70	5,46	2,58	2,90	5,57	2,82	3,14	
-10/-10,5	6,16	2,50	2,82	6,24	2,72	3,04	6,34	2,97	3,29	
-5/-5,5	6,98	2,60	2,92	7,05	2,84	3,16	7,15	3,11	3,43	
0/-0,6	7,89	2,71	3,03	7,95	2,96	3,28	8,04	3,24	3,56	
2/1	8,20	2,75	3,07	8,26	3,00	3,32	8,34	3,29	3,61	
5/4	8,76	2,81	3,13	8,81	3,07	3,39	8,89	3,37	3,69	
7/6	9,10	2,85	3,17	9,15	3,13	3,45	9,22	3,43	3,75	
10/8,3	9,79	2,93	3,25	9,83	3,21	3,53	9,89	3,52	3,84	
15/13,5	11,02	3,04	3,36	11,03	3,34	3,66	11,08	3,67	3,99	
20/18,3	12,46	3,17	3,49	12,45	3,49	3,81	12,48	3,84	4,16	

HOTTY 041 M

	Tu	35			40			45		
		Te bs/bu	PT	Pa	PaT	PT	Pa	PaT	PT	Pa
-20	6,59	2,60	2,92	6,74	2,84	3,16	6,89	3,10	3,42	
-15/-15,4	7,71	2,72	3,04	7,87	2,98	3,30	8,04	3,27	3,59	
-10/-10,5	8,92	2,81	3,13	9,09	3,09	3,41	9,27	3,40	3,72	
-5/-5,5	10,15	2,86	3,18	10,32	3,16	3,48	10,49	3,48	3,80	
0/-0,6	11,51	2,91	3,23	11,66	3,21	3,53	11,82	3,55	3,87	
2/1	11,96	2,93	3,25	12,12	3,24	3,56	12,27	3,58	3,90	
5/4	12,78	2,96	3,28	12,92	3,27	3,59	13,06	3,61	3,93	
7/6	13,28	2,99	3,31	13,41	3,30	3,62	13,54	3,65	3,97	
10/8,3	14,28	3,03	3,35	14,39	3,35	3,67	14,50	3,70	4,02	
15/13,5	16,03	3,08	3,40	16,11	3,40	3,72	16,18	3,77	4,09	
20/18,3	18,09	3,17	3,49	18,11	3,49	3,81	18,13	3,86	4,18	

HOTTY 041 M

	Tu	50			55			60		
		Te bs/bu	PT	Pa	PaT	PT	Pa	PaT	PT	Pa
-20	7,07	3,44	3,76	7,27	3,82	4,14				
-15/-15,4	8,24	3,64	3,96	8,45	4,06	4,38	8,45	4,27	4,59	
-10/-10,5	9,46	3,78	4,10	9,68	4,23	4,55	9,73	4,54	4,86	
-5/-5,5	10,68	3,88	4,20	10,88	4,36	4,68	10,97	4,74	5,06	
0/-0,6	11,99	3,97	4,29	12,17	4,46	4,78	12,26	4,89	5,21	
2/1	12,43	4,00	4,32	12,60	4,50	4,82	12,75	5,01	5,33	
5/4	13,21	4,05	4,37	13,36	4,55	4,87	13,48	5,06	5,38	
7/6	13,68	4,09	4,41	13,83	4,60	4,92	13,93	5,12	5,44	
10/8,3	14,62	4,15	4,47	14,74	4,67	4,99	14,81	5,18	5,50	
15/13,5	16,25	4,22	4,54	16,32	4,76	5,08	16,32	5,27	5,59	
20/18,3	18,14	4,33	4,65	18,05	4,76	5,08	18,06	5,37	5,69	

	Tu	35			40			45		
		PT	Pa	PaT	PT	Pa	PaT	PT	Pa	PaT
-20	6,59	2,48	2,80	6,74	2,74	3,06	6,90	3,01	3,33	
-15/-15,4	7,70	2,60	2,92	7,85	2,87	3,19	8,01	3,16	3,48	
-10/-10,5	8,90	2,67	2,99	9,05	2,96	3,28	9,21	3,27	3,59	
-5/-5,5	10,13	2,73	3,05	10,28	3,03	3,35	10,43	3,35	3,67	
0/-0,6	11,48	2,77	3,09	11,62	3,08	3,40	11,76	3,41	3,73	
2/1	11,94	2,79	3,11	12,08	3,10	3,42	12,21	3,44	3,76	
5/4	12,75	2,81	3,13	12,88	3,13	3,45	13,01	3,47	3,79	
7/6	13,25	2,84	3,16	13,38	3,16	3,48	13,49	3,51	3,83	
10/8,3	14,25	2,88	3,20	14,37	3,20	3,52	14,47	3,56	3,88	
15/13,5	16,01	2,92	3,24	16,10	3,25	3,57	16,17	3,61	3,93	
20/18,3	18,07	2,98	3,30	18,13	3,32	3,64	18,17	3,70	4,02	

HOTTY 041 T

	Tu	50			55			60		
		PT	Pa	PaT	PT	Pa	PaT	PT	Pa	PaT
-20	7,09	3,34	3,66	7,32	3,70	4,02				
-15/-15,4	8,21	3,51	3,83	8,42	3,90	4,22	8,67	4,33	4,65	
-10/-10,5	9,39	3,64	3,96	9,60	4,05	4,37	9,83	4,50	4,82	
-5/-5,5	10,60	3,73	4,05	10,78	4,16	4,48	10,99	4,63	4,95	
0/-0,6	11,91	3,81	4,13	12,07	4,25	4,57	12,25	4,74	5,06	
2/1	12,35	3,84	4,16	12,50	4,29	4,61	12,68	4,79	5,11	
5/4	13,14	3,88	4,20	13,27	4,34	4,66	13,43	4,84	5,16	
7/6	13,61	3,92	4,24	13,74	4,39	4,71	13,89	4,90	5,22	
10/8,3	14,57	3,98	4,30	14,68	4,46	4,78	14,80	4,98	5,30	
15/13,5	16,24	4,05	4,37	16,32	4,54	4,86	16,40	5,07	5,39	
20/18,3	18,20	4,14	4,46	18,23	4,65	4,97	18,26	5,20	5,52	

HOTTY 061 T

	Tu	35			40			45		
		PT	Pa	PaT	PT	Pa	PaT	PT	Pa	PaT
-20	9,57	3,62	4,20	9,64	3,91	4,49	9,76	4,23	4,81	
-15/-15,4	11,12	3,77	4,35	11,21	4,10	4,68	11,35	4,47	5,05	
-10/-10,5	12,79	3,87	4,45	12,89	4,24	4,82	13,04	4,64	5,22	
-5/-5,5	14,49	3,94	4,52	14,59	4,32	4,90	14,74	4,75	5,33	
0/-0,6	16,34	3,98	4,56	16,43	4,39	4,97	16,58	4,84	5,42	
2/1	16,96	4,01	4,59	17,05	4,42	5,00	17,20	4,87	5,45	
5/4	18,07	4,03	4,61	18,15	4,45	5,03	18,29	4,92	5,50	
7/6	18,73	4,07	4,65	18,81	4,49	5,07	18,95	4,96	5,54	
10/8,3	20,08	4,11	4,69	20,14	4,54	5,12	20,28	5,02	5,60	
15/13,5	22,42	4,18	4,76	22,46	4,61	5,19	22,58	5,10	5,68	
20/18,3	25,15	4,29	4,87	25,16	4,72	5,30	25,25	5,22	5,80	

HOTTY 061 T

	Tu	50			55			60		
		PT	Pa	PaT	PT	Pa	PaT	PT	Pa	PaT
-20	9,95	4,63	5,21	10,23	5,09	5,67				
-15/-15,4	11,56	4,92	5,50	11,87	5,44	6,02	12,27	6,03	6,61	
-10/-10,5	13,27	5,14	5,72	13,59	5,71	6,29	14,01	6,36	6,94	
-5/-5,5	14,98	5,28	5,86	15,31	5,89	6,47	15,74	6,59	7,17	
0/-0,6	16,81	5,39	5,97	17,14	6,04	6,62	17,57	6,77	7,35	
2/1	17,43	5,44	6,02	17,76	6,10	6,68	18,19	6,84	7,42	
5/4	18,52	5,49	6,07	18,84	6,17	6,75	19,28	6,93	7,51	
7/6	19,18	5,55	6,13	19,51	6,24	6,82	19,95	7,02	7,60	
10/8,3	20,50	5,63	6,21	20,83	6,33	6,91	21,26	7,14	7,72	
15/13,5	22,78	5,72	6,30	23,09	6,45	7,03	23,52	7,27	7,85	
20/18,3	25,44	5,86	6,44	25,73	6,61	7,19	26,15	7,46	8,04	

	Tu	35			40			45		
		PT	Pa	PaT	PT	Pa	PaT	PT	Pa	PaT
	-20	11,63	4,30	4,88	11,76	4,67	5,25	12,02	5,10	5,68
	-15/-15,4	14,03	4,58	5,16	14,17	4,98	5,56	14,43	5,44	6,02
	-10/-10,5	16,49	4,82	5,40	16,64	5,24	5,82	16,88	5,73	6,31
	-5/-5,5	18,90	5,02	5,60	19,05	5,47	6,05	19,27	5,98	6,56
	0/-0,6	21,47	5,20	5,78	21,62	5,68	6,26	21,83	6,22	6,80
	2/1	22,33	5,26	5,84	22,48	5,75	6,33	22,69	6,31	6,89
	5/4	23,85	5,35	5,93	24,01	5,86	6,44	24,22	6,44	7,02
	7/6	24,78	5,42	6,00	24,94	5,95	6,53	25,14	6,55	7,13
	10/8,3	26,64	5,52	6,10	26,81	6,08	6,66	27,01	6,71	7,29
	15/13,5	29,93	5,65	6,23	30,10	6,26	6,84	30,29	6,93	7,51
	20/18,3	33,84	5,80	6,38	34,02	6,47	7,05	34,19	7,21	7,79
	Tu	50			55			60		
		PT	Pa	PaT	PT	Pa	PaT	PT	Pa	PaT
	-20	12,42	5,66	6,24	12,92	6,31	6,89			
	-15/-15,4	14,80	6,02	6,60	15,26	6,71	7,29	15,78	7,49	8,07
	-10/-10,5	17,21	6,34	6,92	17,62	7,07	7,65	18,07	7,88	8,46
	-5/-5,5	19,58	6,63	7,21	19,93	7,38	7,96	20,32	8,23	8,81
	0/-0,6	22,11	6,90	7,48	22,41	7,69	8,27	22,73	8,59	9,17
	2/1	22,95	7,00	7,58	23,25	7,81	8,39	23,54	8,72	9,30
	5/4	24,46	7,16	7,74	24,73	7,99	8,57	24,99	8,93	9,51
	7/6	25,38	7,29	7,87	25,63	8,14	8,72	25,87	9,09	9,67
	10/8,3	27,23	7,48	8,06	27,44	8,37	8,95	27,64	9,36	9,94
	15/13,5	30,48	7,76	8,34	30,65	8,70	9,28	30,78	9,75	10,33
	20/18,3	34,35	8,10	8,68	34,46	9,11	9,69	34,51	10,23	10,81

Valorile PT de incalzire se referă la condiții de operare cu bateria curată, fără prezența de gheătă. Altfel, pentru a calcula capacitatea de incalzire, este necesar să se ia în calcul factorul de dezghetare prin aplicarea multiplicatorilor de mai jos:

The PT heat outputs refer to operating conditions with the finned coil clean without the presence of frost on the fin area. Otherwise for the calculation of the heating capacity is necessary to consider the factor "defrost" by applying the multipliers below:

Putere termică efectivă = PT * factorul Ksb

	Temp. ambientala B.S. / B.U. _ Ambient temp. D.B / W.B.						
	5/4	2/1	0/-0,6	-5/-5,5	-10/-10,5	-15/-15,4	-20
Ksb factor dezghetare	0,93	0,85	0,88	0,9	0,92	0,95	0,95

Tu Temp. apa pe tur - Leaving water temp.
Te Temp. ambientala - Ambient temperature

PT Capacitate de incalzire - Heating capacity
Pa Putere absorbită compresor - Compressor power input
PaT Putere compresor + ventilatoare (exclus pompa) - Compressor + fans power input (pump excluded)

HOTTY

PERFORMANTE DE RACIRE

COOLING PERFORMANCE

HOTTY 031 M	Te bs	25			30			35			
		Tu	PF	Pa	PaT	PF	Pa	PaT	PF	Pa	PaT
4	7,53	2,11	2,43	7,36	2,30	2,62	7,21	2,51	2,83		
5	7,72	2,18	2,50	7,54	2,37	2,69	7,34	2,59	2,91		
6	7,79	2,23	2,55	7,61	2,43	2,75	7,40	2,65	2,97		
7	7,95	2,28	2,60	7,76	2,49	2,81	7,63	2,72	3,04		
8	8,10	2,32	2,64	7,94	2,53	2,85	7,75	2,76	3,08		
9	8,31	2,33	2,65	8,17	2,55	2,87	8,00	2,79	3,11		
10	8,50	2,35	2,67	8,30	2,57	2,89	8,12	2,81	3,13		
11	8,76	2,38	2,70	8,55	2,60	2,92	8,37	2,85	3,17		
15	9,66	2,42	2,74	9,49	2,65	2,97	9,29	2,91	3,23		
18	10,99	2,48	2,80	10,87	2,73	3,05	10,73	3,01	3,33		

HOTTY 031 M	Te bs	40			45			
		Tu	PF	Pa	PaT	PF	Pa	PaT
4	7,03	2,74	3,06	6,89	3,01	3,33		
5	7,12	2,83	3,15	6,90	3,11	3,43		
6	7,21	2,91	3,23	6,98	3,19	3,51		
7	7,43	2,98	3,30	7,17	3,28	3,60		
8	7,54	3,03	3,35	7,35	3,34	3,66		
9	7,81	3,07	3,39	7,59	3,38	3,70		
10	7,88	3,09	3,41	7,65	3,40	3,72		
11	8,15	3,13	3,45	7,94	3,46	3,78		
15	9,07	3,21	3,53					
18	10,50	3,33	3,65					

HOTTY 041 M	Te bs	25			30			35			
		Tu	PF	Pa	PaT	PF	Pa	PaT	PF	Pa	PaT
4	11,12	2,79	3,11	11,03	3,09	3,41	10,91	3,43	3,75		
5	11,43	2,88	3,20	11,31	3,19	3,51	11,10	3,56	3,88		
6	11,57	2,96	3,28	11,43	3,28	3,60	11,20	3,66	3,98		
7	11,82	3,03	3,35	11,67	3,36	3,68	11,54	3,75	4,07		
8	12,05	3,08	3,40	11,93	3,42	3,74	11,70	3,81	4,13		
9	12,35	3,10	3,42	12,25	3,44	3,76	12,06	3,84	4,16		
10	12,61	3,12	3,44	12,43	3,46	3,78	12,23	3,86	4,18		
11	12,99	3,15	3,47	12,79	3,50	3,82	12,58	3,91	4,23		
15	14,23	3,18	3,50	14,09	3,54	3,86	13,84	3,95	4,27		
18	16,04	3,25	3,57	15,95	3,60	3,92	15,77	4,03	4,35		

HOTTY 041 M	Te bs	40			45			
		Tu	PF	Pa	PaT	PF	Pa	PaT
4	10,70	3,84	4,16	10,50	4,33	4,65		
5	10,83	3,99	4,31	10,50	4,50	4,82		
6	10,95	4,11	4,43	10,60	4,64	4,96		
7	11,26	4,21	4,53	10,85	4,76	5,08		
8	11,41	4,29	4,61	11,09	4,85	5,17		
9	11,79	4,32	4,64	11,41	4,89	5,21		
10	11,88	4,35	4,67	11,50	4,92	5,24		
11	12,25	4,40	4,72	11,88	4,98	5,30		
15	13,51	4,45	4,77					
18	15,42	4,54	4,86					

HOTTY

PERFORMANTE DE RACIRE

COOLING PERFORMANCE

Te bs	25			30			35		
	Tu	PF	Pa	PaT	PF	Pa	PaT	PF	Pa
4	11,25 2,	63	2,95	11,13 2,	94	3,26	11,00 3,	29	3,61
5	11,55 2,	72	3,04	11,42 3,	05	3,37	11,20 3,	41	3,73
6	11,69 2,	80	3,12	11,54 3,	14	3,46	11,30 3,	51	3,83
7	11,94 2,	87	3,19	11,78 3,	22	3,54	11,64 3,	60	3,92
8	12,17 2,	92	3,24	12,03 3,	27	3,59	11,82 3,	66	3,98
9	12,47 2,	94	3,26	12,37 3,	29	3,61	12,18 3,	69	4,01
10	12,74 2,	96	3,28	12,55 3,	31	3,63	12,36 3,	71	4,03
11	13,11 2,	99	3,31	12,92 3,	35	3,67	12,72 3,	75	4,07
15	14,37 3,	01	3,33	14,24 3,	38	3,70	14,01 3,	78	4,10
18	16,21 3,	06	3,38	16,15 3,	43	3,75	16,01 3,	85	4,17

Te bs	40			45		
	Tu	PF	Pa	PaT	PF	Pa
4	10,79 3,	69	4,01	10,61 4,	14	4,46
5	10,93 3,	83	4,15	10,62 4,	30	4,62
6	11,06 3,	94	4,26	10,73 4,	43	4,75
7	11,38 4,	04	4,36	11,00 4,	53	4,85
8	11,54 4,	11	4,43	11,26 4,	62	4,94
9	11,93 4,	14	4,46	11,60 4,	65	4,97
10	12,03 4,	16	4,48	11,69 4,	68	5,00
11	12,41 4,	21	4,53	12,09 4,	73	5,05
15	13,72 4,	25	4,57			
18	15,72 4,	33	4,65			

Te bs	25			30			35		
	Tu	PF	Pa	PaT	PF	Pa	PaT	PF	Pa
4	15,92 3,	80	4,38	15,63 4,	20	4,78	15,40 4,	66	5,24
5	16,28 3,	92	4,50	15,99 4,	34	4,92	15,66 4,	83	5,41
6	16,43 4,	02	4,60	16,13 4,	45	5,03	15,80 4,	97	5,55
7	16,74 4,	11	4,69	16,45 4,	56	5,14	16,27 5,	08	5,66
8	17,03 4,	18	4,76	16,79 4,	63	5,21	16,51 5,	17	5,75
9	17,43 4,	20	4,78	17,24 4,	66	5,24	17,00 5,	20	5,78
10	17,78 4,	22	4,80	17,48 4,	69	5,27	17,24 5,	23	5,81
11	18,28 4,	27	4,85	17,97 4,	74	5,32	17,73 5,	29	5,87
15	19,94 4,	31	4,89	19,73 4,	78	5,36	19,47 5,	34	5,92
18	22,34 4,	40	4,98	22,24 4,	87	5,45	22,12 5,	44	6,02

Te bs	40			45				
	Tu	PF	Pa	PaT	PF	Pa	PaT	
4	15,12 5,	22	5,80	14,95 5,	87	6,45		
5	15,33 5,	41	5,99	15,01 6,	10	6,68		
6	15,52 5,	58	6,16	15,20 6,	29	6,87		
7	15,98 5,	71	6,29	15,61 6,	45	7,03		
8	16,22 5,	82	6,40	15,99 6,	58	7,16		
9	16,75 5,	86	6,44	16,47 6,	63	7,21		
10	16,89 5,	89	6,47	16,60 6,	66	7,24		
11	17,42 5,	96	6,54					
15	19,20 6,	02	6,60					
18	21,89	6,13	6,71					

HOTTY

PERFORMANTE DE RACIRE

COOLING PERFORMANCE

HOTTY 081 T	Te bs	25			30			35		
		Tu	PF	Pa	PaT	PF	Pa	PaT	PF	Pa
	4	20,96	5,09	5,67	20,69	5,61	6,19	20,46	6,21	6,79
	5	21,49	5,26	5,84	21,21	5,81	6,39	20,83	6,44	7,02
	6	21,72	5,39	5,97	21,43	5,97	6,55	21,03	6,64	7,22
	7	22,17	5,53	6,11	21,87	6,12	6,70	21,67	6,82	7,40
	8	22,59	5,62	6,20	22,36	6,24	6,82	21,99	6,95	7,53
	9	23,15	5,66	6,24	22,98	6,30	6,88	22,67	7,02	7,60
	10	23,64	5,70	6,28	23,32	6,34	6,92	23,00	7,08	7,66
	11	24,35	5,77	6,35	24,01	6,43	7,01	23,68	7,18	7,76
	15	26,70	5,84	6,42	26,50	6,54	7,12	26,13	7,33	7,91
	18	30,20	5,94	6,52	30,17	6,70	7,28	30,00	7,58	8,16
HOTTY 081 T	Te bs	40			45					
		Tu	PF	Pa	PaT	PF	Pa	PaT		
	4	20,11	6,92	7,50	19,79	7,75	8,33			
	5	20,38	7,19	7,77	19,83	8,05	8,63			
	6	20,61	7,42	8,00	20,02	8,31	8,89			
	7	21,22	7,63	8,21	20,52	8,56	9,14			
	8	21,52	7,79	8,37	20,99	8,76	9,34			
	9	22,25	7,88	8,46	21,62	8,86	9,44			
	10	22,43	7,93	8,51	21,79	8,92	9,50			
	11	23,15	8,07	8,65	22,54	9,09	9,67			
	15	25,62	8,26	8,84						
	18	29,50	8,58	9,16						

Tu Temp. apa pe tur - *Leaving water temp.*
 Te Temp. ambientala - *Ambient temperature*

PF Capacitate de racire - *Cooling capacity*
 Pa Putere absorbita compresor - *Compressor power input*
 PaT Putere compresor + ventilatoare (exclus pompa) _ *Compressor + fans power input (pump excluded)*

HOTTY

LIMITE DE FUNCTIONARE

WORKING LIMITS

FUNCTIONARE PE TEMP DE IARNA - WINTER WORKING

Temperatura apa - *Water temperature*

		Min	Standard	Max
Temp. apa intrare <i>Inlet water temperature</i>	°C	20	39	53



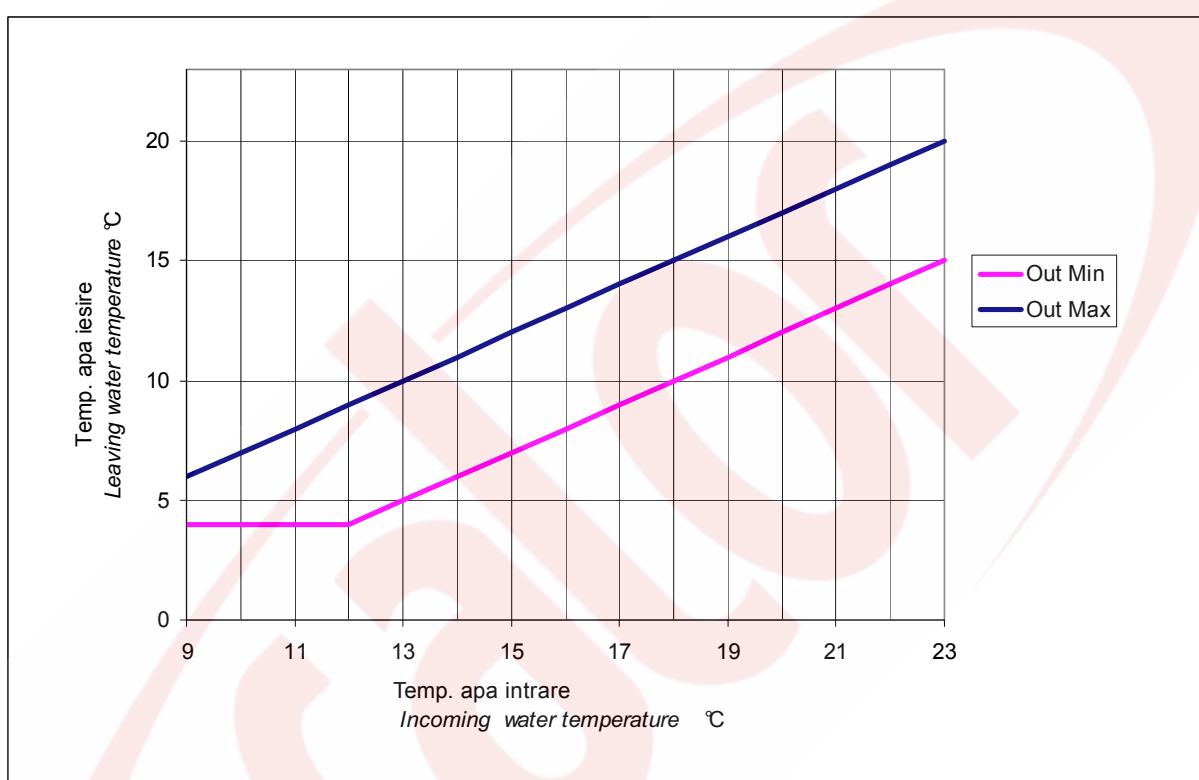
Temperatura ambientala - *Ambient temperature*

		Min	Max
Temperatura ambientala <i>Ambient temperature</i>	°C	-20	20

FUNCTIONARE PE TEMP DE VARA SUMMER WORKING

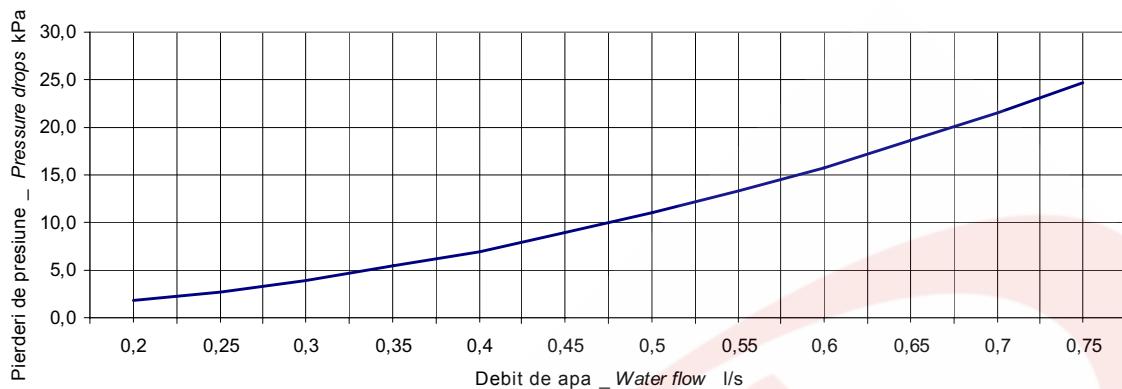
Temperatura apa - *Water temperature*

		Min	Standard	Max
Temp. apa intrare <i>Inlet water temperature</i>	°C 9		12	23

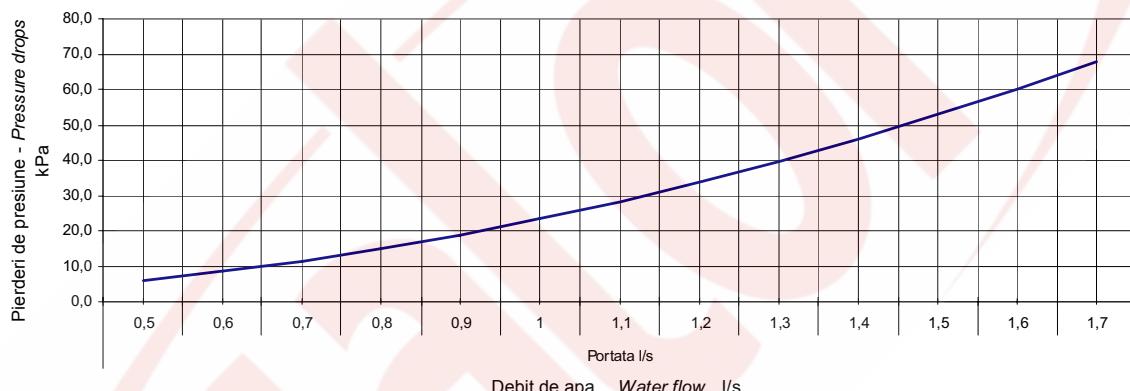
Temperatura ambientala - *Ambient temperature*

	Mi	n	Max
Temperatura ambientala <i>Ambient temperature</i>	°C +	10	40

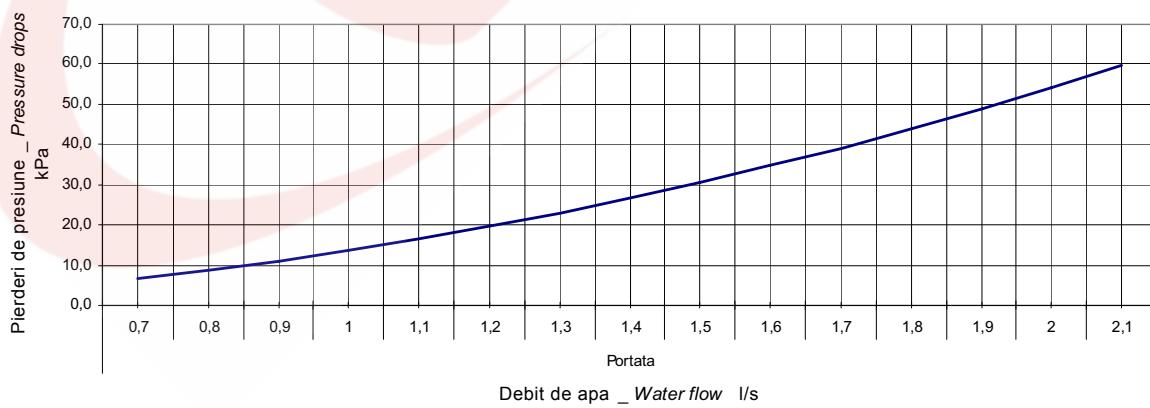
HOTTY 031MC

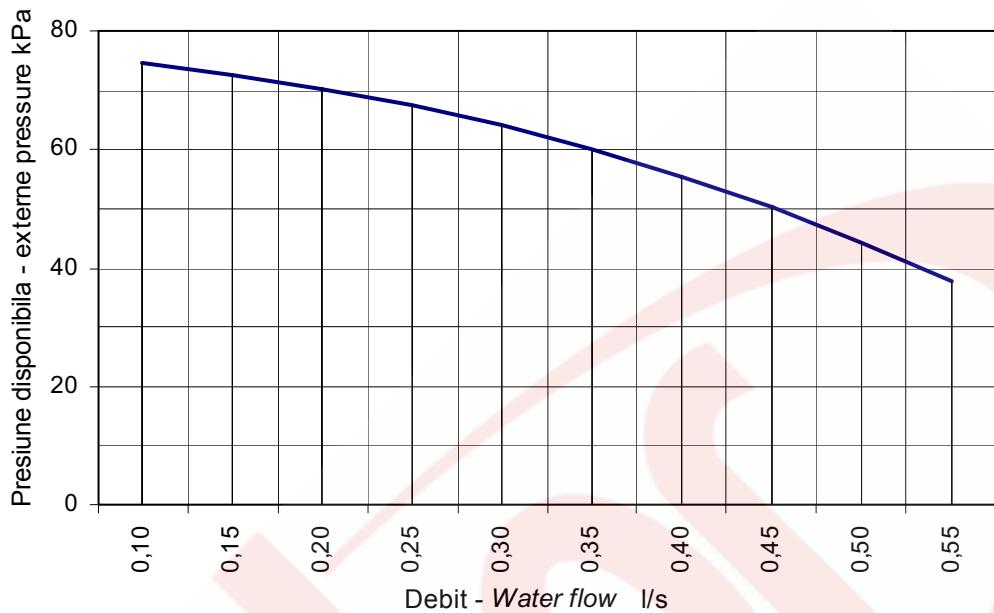
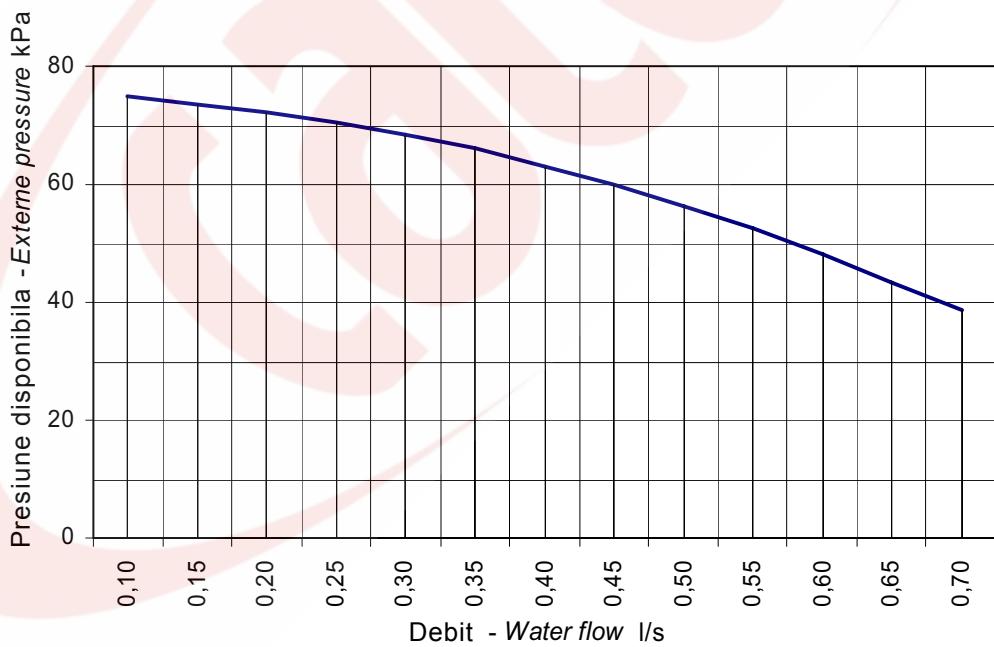


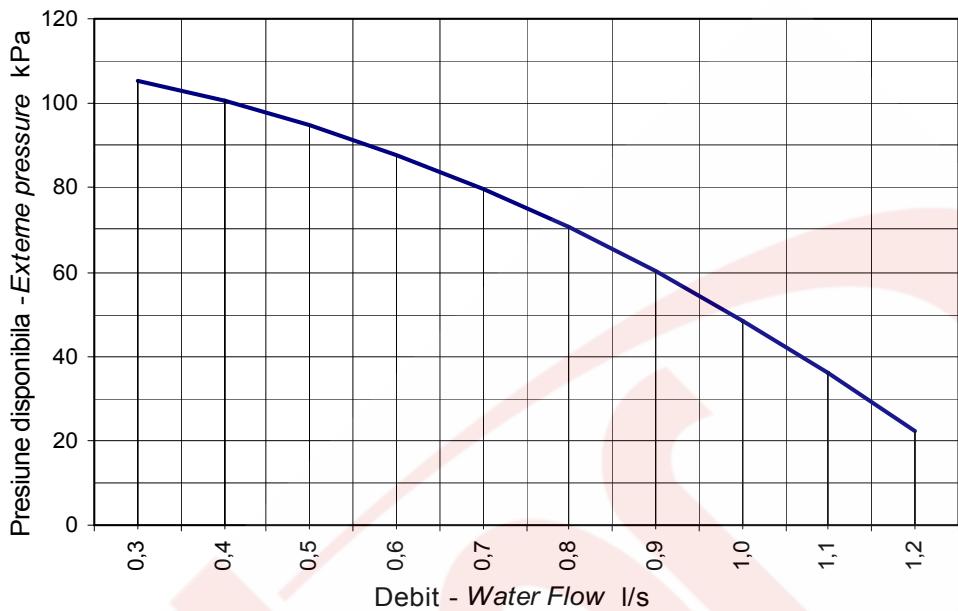
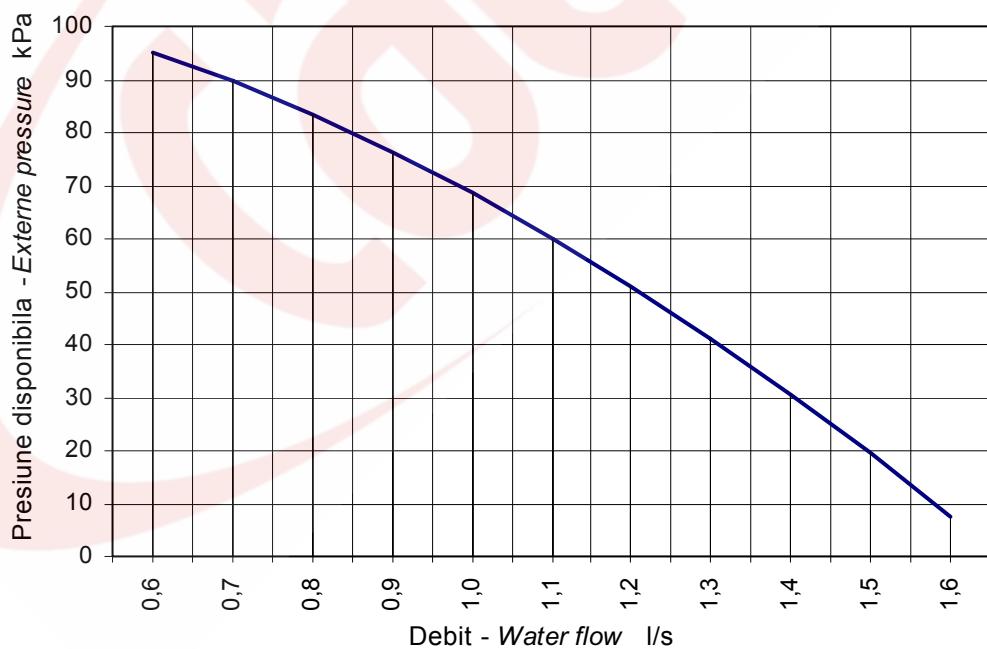
HOTTY 041MC - 041TC - 061TC



HOTTY 081TC



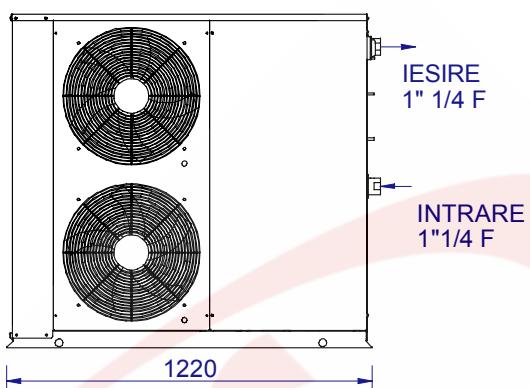
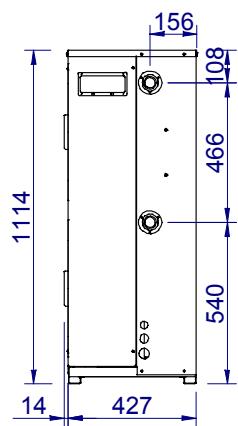
HOTTY 031**HOTTY 041MC - 041TC**

HOTTY 061TC**HOTTY 081TC**

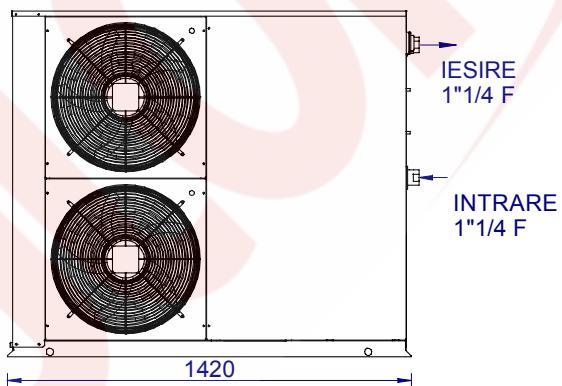
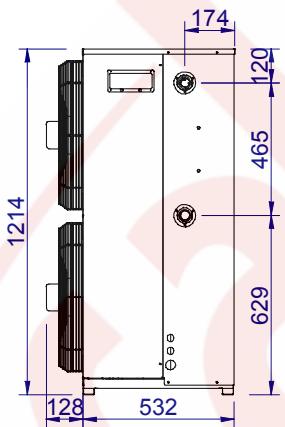
DIMENSIUNI SI RACORDURI APA

DIMENSIONS & WATER CONNECTIONS

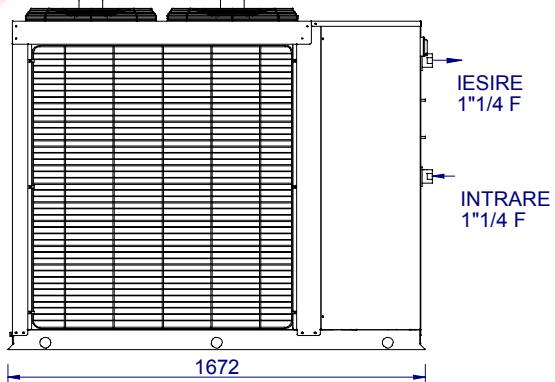
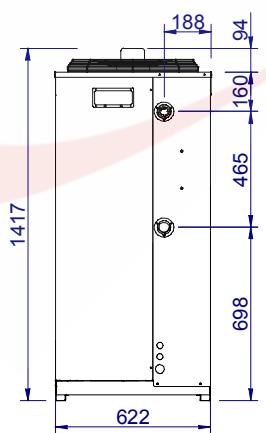
MODEL: 031



MODELE: 041 - 061



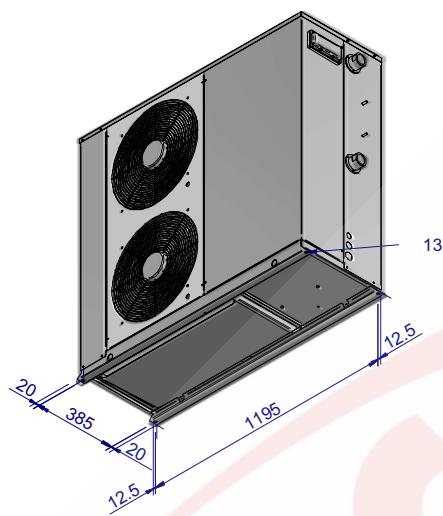
MODEL: 081



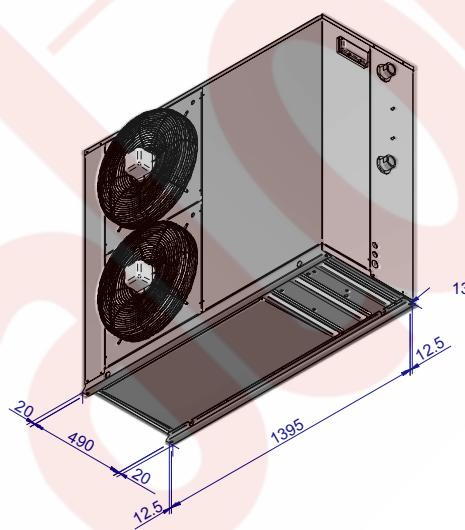
POZITII MONTARE AMORTIZOARE

ANTI VIBRATING MOUNTS POSITION

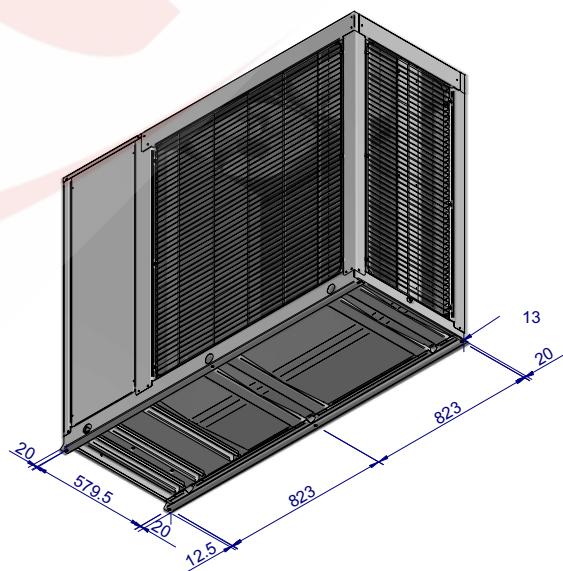
MODEL: 031



MODELE: 041 – 061



MODEL: 081

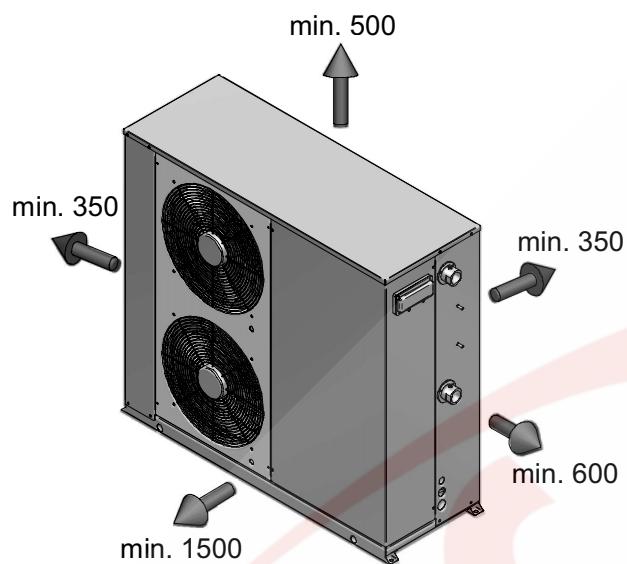


HOTTY

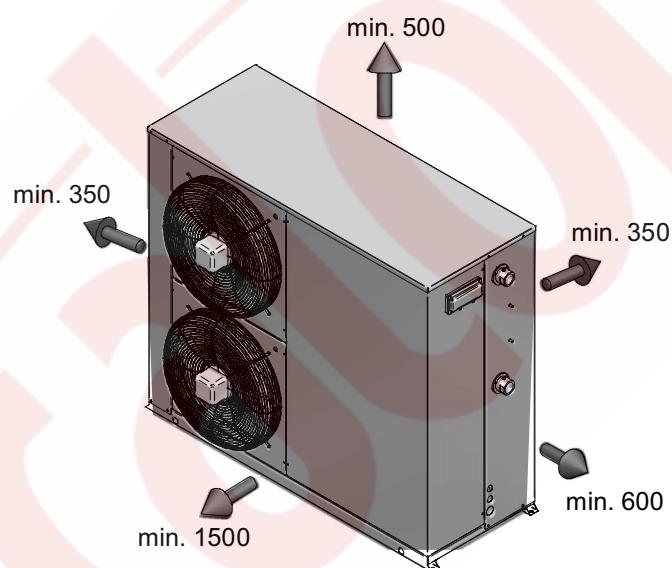
SPATII NECESSARE PENTRU FUNCTIONARE

OPERATING SPACES

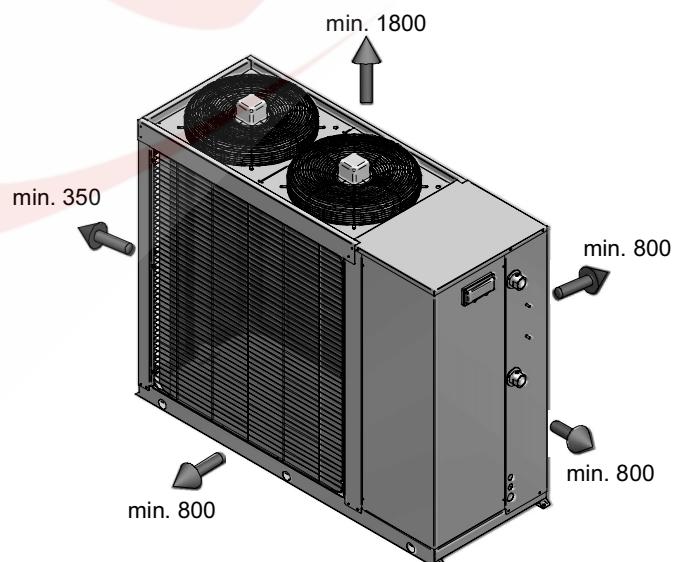
MODEL: 031



MODELE: 041 – 061



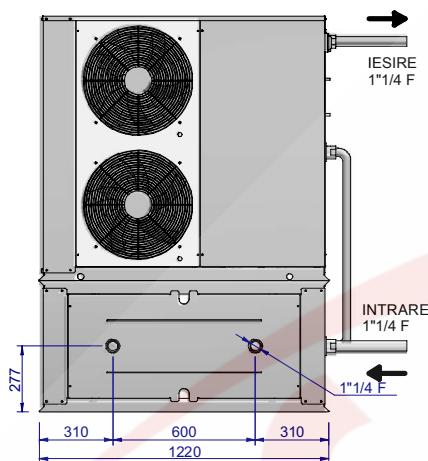
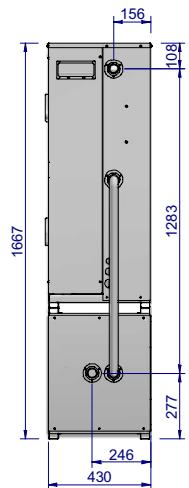
MODEL: 081



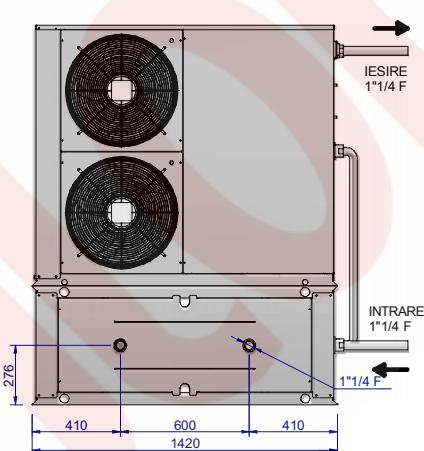
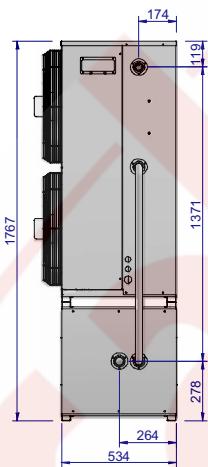
HOTTY

VAS DE ACUMULARE (OPTIONAL)

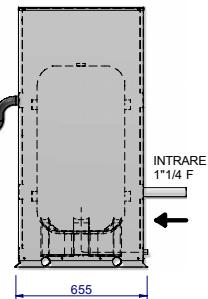
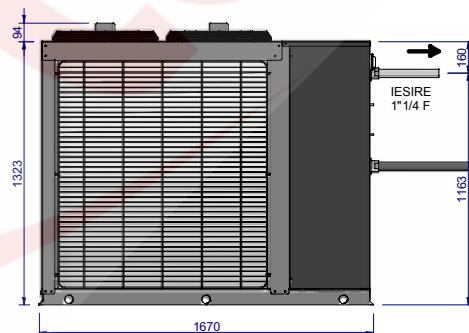
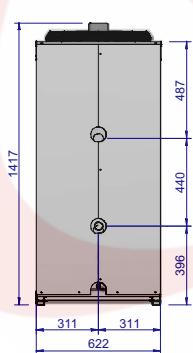
MODEL: 031



MODELE: 041 – 061



MODEL: 081

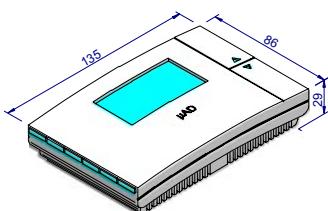


	MODEL				
	031 M	041 M	041 T	061 T	081T
LITRI / LITRE			70		100
COD / CODE	137KA070A		137KA070B		137KA00

ACCESORII OPTIONALE

OPTIONAL ACCESSORIES

PANOU DE CONTROL LA DISTANTA



Panou de control la distanta (cu montare la interior) - se conecteaza la unitate prin placă de interfață deja cablata în panoul electric al pompei Hotty.

Permite urmatoarele funcții:

- control ON / OFF al echipamentului
- comutare Vara / iarna
- setari ore ale functionarii
- citire temperatura camerei
- citire ceas

REMOTE CONTROL PANEL

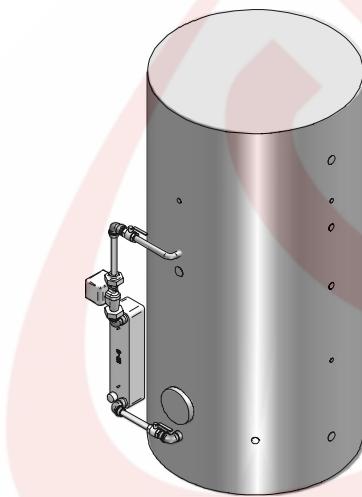
COD	MODEL				
	031 M	041 M	041 T	061 T	081 T
	137KRC050				

Room control panel to be connected to the unit via serial interface card supplied already wired into the electrical panel of the unit Hotty.

It allows the following functions:

- On / off control of equipment
- "Summer / Winter" switching
- Setting times of operation
- Reading of the room temperature
- Clock reading

KIT SCHIMBATOR DE CALDURA / POMPA A.C.M (KSP)



Kitul de transfer al caldurii apei calde menajere este echipat cu un schimbator de caldura in placi si circulator de apa cu corp din bronz si tevi de cupru.

Toate componentele kit-ului sunt corespunzatoare utilizarii pt ACM. Scopul kit-ului este de a transfera temperatura furnizata de pompa de caldura catre vasul de apa calda menajera, realizand o eficiență maximă a schimbătorului de caldura cu o diferență mică de temperatură între cele două medii.

Mai mult, schimbatorul de caldura permite o separare totală între cele două medii, evitând orice contact al apei calde menajere cu apa care circula în pompa de caldura.

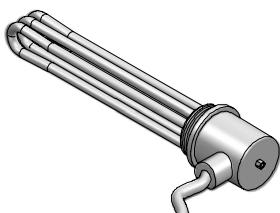
D.H.W. PUMP / HEAT EXCHANGER KIT (KSP)

COD	MODEL				
	031 M	041 M	041 T	061 T	081 T
	137KSP100				
	137KSP110				

The domestic water heat transfer kit is equipped with an brazed stainless steel plate to plate exchanger and a water circulator with bronze body and copper piping. All the kit components are suitable for sanitary water use. The purpose of the kit is to transfer the heating energy coming from the heat pump desuperheater to the domestic water vessel allowing the max heat exchanging efficiency with a small temperature difference between the two mediums.

Furthermore the heat exchanger allows a total separation between the two medium, avoiding any contact of the sanitary water with the water flowing into the heat pump.

INCALZITOR ELECTRIC APA CALDA MENAJERA

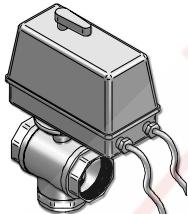


Rezistenta electrica cu imersie este fixata pe vas pentru integrarea incalzirii apei calde menajere. Este completata de un termostat de siguranta si terminal pentru conectarea cutiei de control a pompei de caldura Hotty.

D.H.W. INTEGRATION EL. HEATER

MODEL					
	031 M	041 M	041 T	061 T	081 T
Kw / V	3Kw / 230V 1ph			6Kw 400V 3ph	
COD	137KRI030	137K			RI060

KIT VANA CU 3 CAI



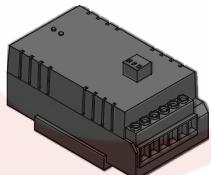
Kit-ul contine vana motorizata cu 3 cai pentru controlul apei calde menajere cu prioritate. Kit-ul poate fi livrat separat sau deja fixat pe vasul de apa calda menajera (daca este furnizat). Vana cu 3 cai este comandata direct de catre controllerul electronic al unitatii Hotty.

Immersion type electrical heater to be fitted on the vessel for heating integration of the domestic hot water. Complete with high temperature safety thermostat and terminal for connecting to the Hotty control box.

THREE WAY VALVE KIT

MODEL					
	031 M	041 M	041 T	061 T	081 T
COD	137K3V000				

KIT SOFT STARTER COMPRESOR



Dispozitiv electronic pentru a reduce nivelul curentului de pornire al compresorului pe unitati cu alimentare monofazica. Limiteaza curentul maxim pana la 40 A. Poate fi montat direct din fabrica sau poate fi livrat separat pentru asamblare la locul montajului.

Motorized three-way valve kit to control the domestic hot water with logical priority over the plant. The kit can be supplied separately or already fitted on the DHW tank (If provided). The valve is directly driven by the electronic controller of the unit Hotty.

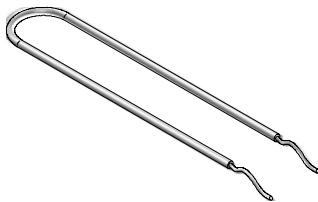
COMPRESSOR SOFT STARTER KIT

MODEL					
	031 M	041 M	041 T	061 T	081 T
COD	137SSC100		n.a.	n.a.	n.a.

Electronic device to reduce the inrush current of the compressor on units with single phase supply. It limits the maximum current up to 40 A. It can be supplied factory installed or loose for assembly on site.

KIT ELECTRIC ANTIINGHET PENTRU TAVA DE COLECTARE CONDENS

DRAIN PANEL ANTIFREEZE EL. HEATING KIT



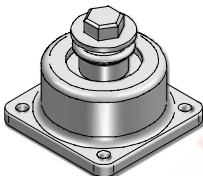
Previne formarea ghetii pe tava de colectare condens si posibilele blocaje ale conductei de scurgere in situatii de temperatura ambientala scazuta.

Kitul poate fi livrat asamblat numai din fabrica.

MODEL				
	031 M	041 M	041 T	061 T
COD	137KRI120 137KR			1130

It prevents the ice forming on the condensation drain panel and possible obstruction of the drain connection pipe with low ambient temperature. The kit can be supplied factory assembly only.

SUPPORTI ANTIVIBRANTI



Este necesar pentru a evita transmiterea vibratiilor catre structura de sustinere a echipamentului.

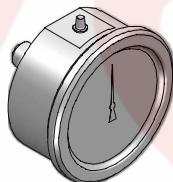
Este realizat din aliaj de aluminiu, cu amortizare pentru o durata mai mare de viata.

VIBRATION DAMPENING SUPPORT FEETS

MODEL				
	031 M	041M	041T	061T
COD	137SAB000	137SAB010	137SAB040	

Necessary to avoid transmission of vibrations to the support structure of the equipment. Made of aluminum alloy material with elastomer damping _ long-lasting.

MANOMETRE CIRCUIT REFRIGERENT



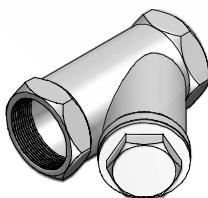
Permit citirea presiunii / temperaturii refrigerentului pe partile cu presiune ridicata si joasa.

REFRIGERANT PRESSURE GAUGES

MODEL				
	031 M	041 M	041 T	061 T
COD	137MHL000			

They allow the reading the the refrigerant pressure / temperature on high and low pressure side.

FILTRU DE APA



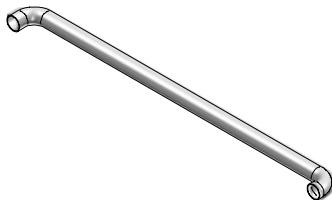
Vor fi montate pe conducta de intrare, prevenind posibilele obstructii ale schimburatorului de caldura
Kit-ul este furnizat separat pentru montare pe loc.

WATER STRAINER

MODEL				
	031 M	041 M	041 T	061 T
COD	137KFR000			

To be fitted on the user plant inlet pipe to the unit, it prevents the possibility of obstruction of the heat exchanger. The kit is supplied separately for assembly on site.

KIT CONECTARE REZERVOR LA CONDUCTE



BUFFER VESSEL PIPING CONNECTION KIT

	MODEL				
	031 M	041M	041T	061T	081 T
COD	137KAT010		137KAT020		n.a.

Conexiuni preasamblate pentru conducte intre baza si accesoriu 137KA... (rezervor).

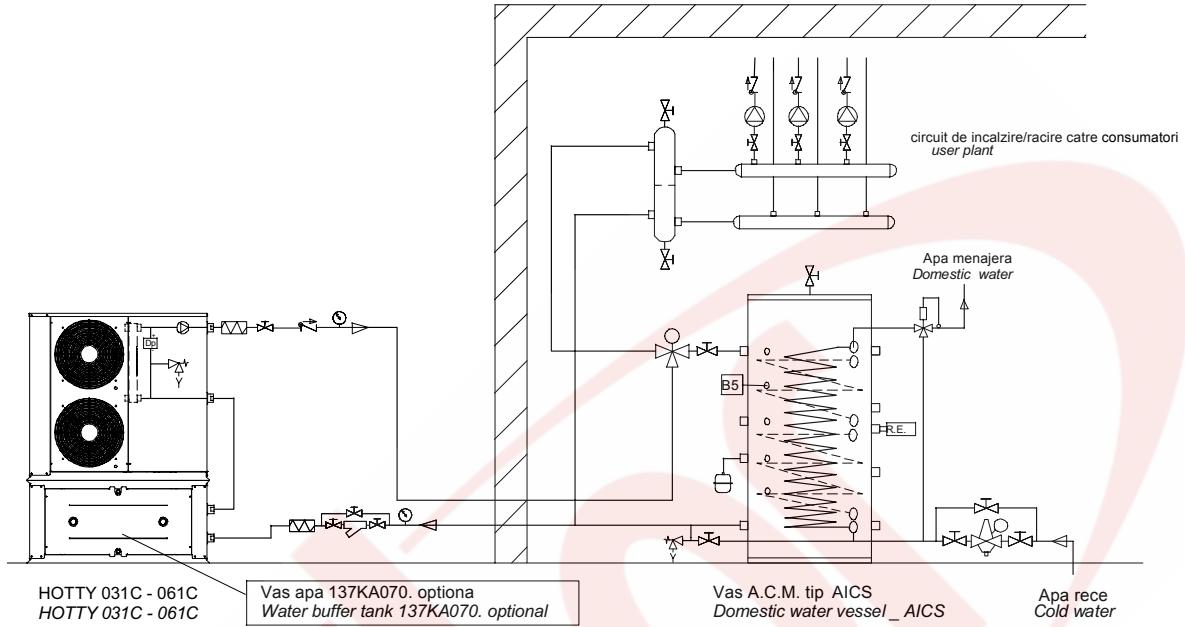
Preassembled pipe hydraulic connection between the base unit and the accessory 137KA (Buffer tank).

SCHEMA DE PRINCIPIU A CONECTARII HIDRAULICE
Modele HOTTY 031MC – 041MC – 041TC

WATER PIPING DIAGRAM _PRINCIPLE_
Models HOTTY 031MC – 041MC – 041TC

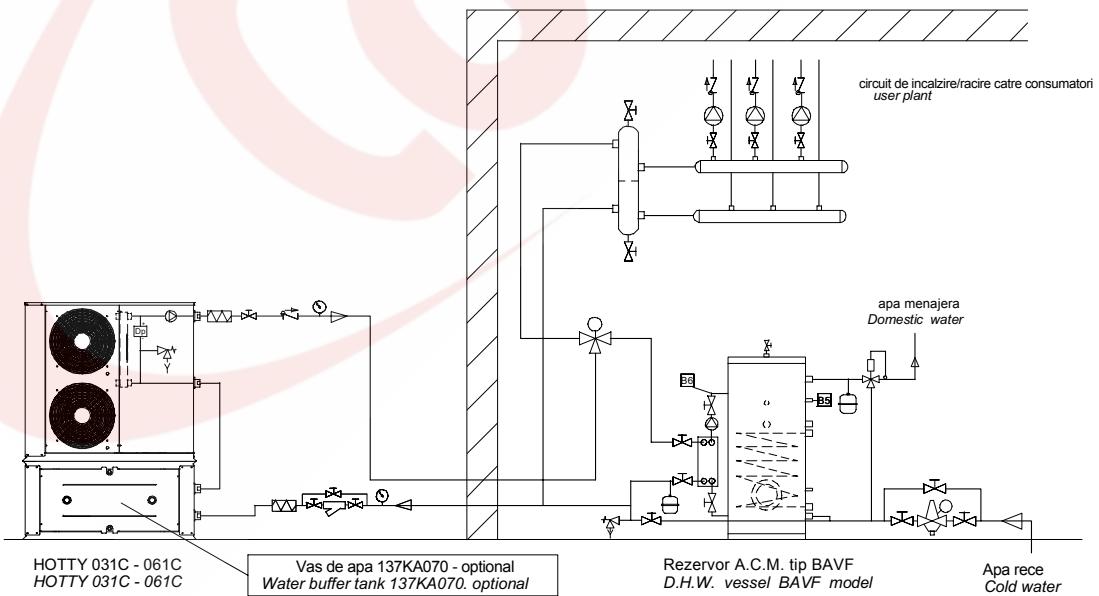
VERSIIUNI CU VAS APA CALDA MENAJERA TIP A.I.C.S.

VERSION WITH D.H.W. VESSEL MODEL A.I.C.S.



VERSIIUNI CU VAS APA CALDA MENAJERA TIP BAVF

VERSION WITH D.H.W. VESSEL MODEL BAVF



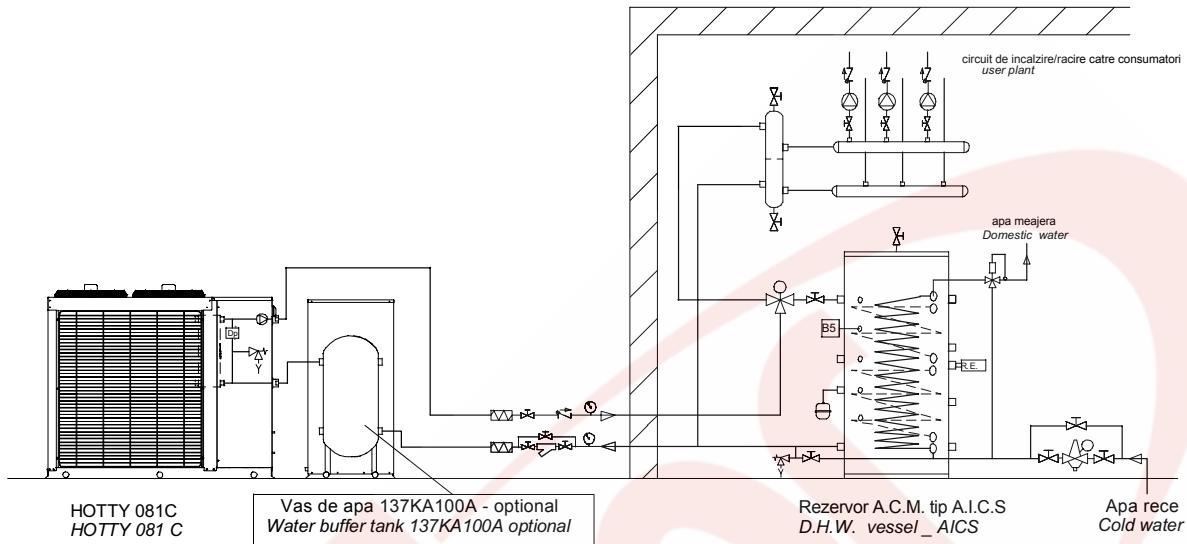
HOTTY

SCHEMA DE PRINCIPIU A CONECTARII HIDRAULICE
Model HOTTY 081TC

WATER PIPING DIAGRAM _PRINCIPLE_
Models HOTTY 081TC

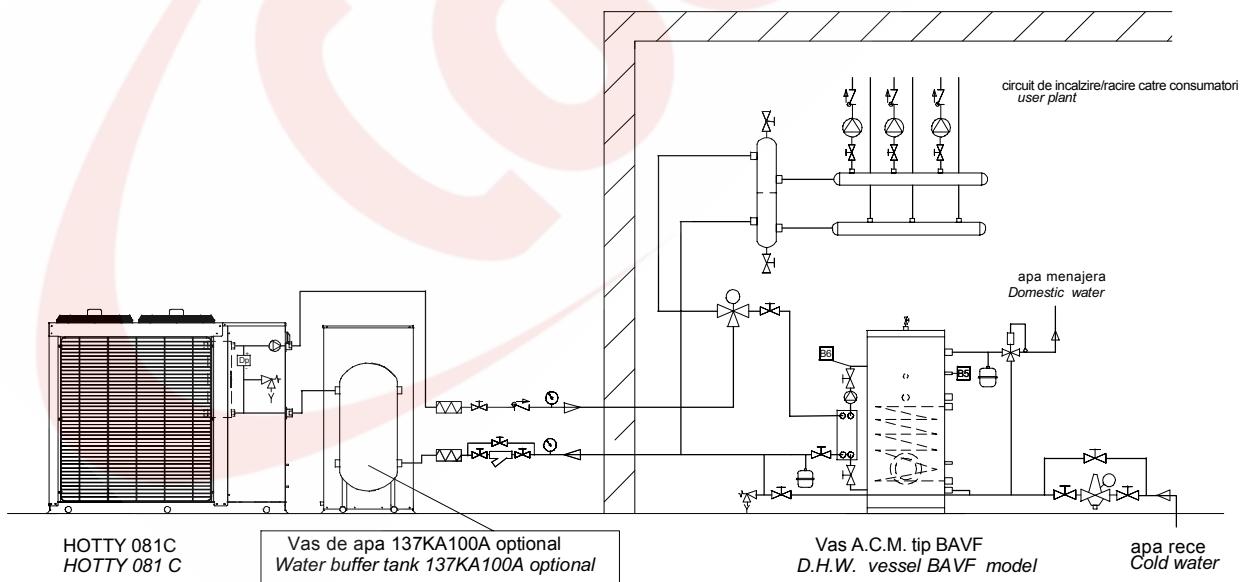
VERSIUNI CU VAS APA CALDA MENAJERA TIP A.I.C.S

VERSION WITH D.H.W. VESSEL MODEL A.I.C.S.



VERSIUNI CU VAS APA CALDA MENAJERA TIP BAVF

VERSION WITH D.H.W. VESSEL MODEL BAVF



CARTE TEHNICA POMPE DE CALDURA HOTTY