

# 50RHE

## HORIZONTAL PACKAGED WATER-TO-AIR HEAT PUMPS



### Physical data

50RHE		006	009	012	015	019	024	030	036	042	048	060
Nominal cooling capacity*	kW	1.5	2.1	2.5	3.9	4.9	5.7	6.4	8.0	9.9	11.4	13.7
Nominal heating capacity**	kW	1.8	2.4	3.4	3.8	6.1	7.0	7.9	10.6	11.3	14.3	16.8
Weight	kg	50	51	55	67	77	88	99	104	117	121	147
Compressor		Rotary					Hermetic				Scroll	
Refrigerant		R-407C										
Refrigerant-water heat exchanger		One ... tube-in-tube										
Water connections	in	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	1	1	1
Refrigerant-air heat exchanger		One ... copper tubes, aluminium fins										
Fan		One ... three-speed centrifugal										
Nominal air flow	l/s	81	113	140	212	264	307	349	437	530	630	790

\* Nominal conditions: air temperature - 27°C dry bulb, 19°C wet bulb, entering water temperature - 30°C.

\*\* Nominal conditions: air temperature - 20°C dry bulb, 15°C wet bulb, entering water temperature - 20°C.

### Electrical data

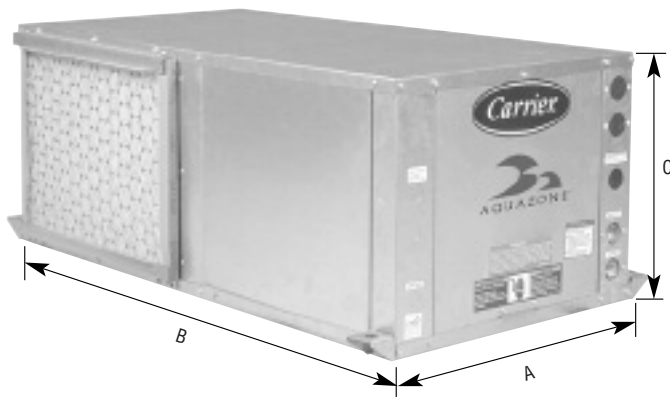
50RHE		006	009	012	015	019	024	030	036	042	048	060
Nominal voltage	V-ph	220-1	220-1	220-1	220-1	220-1	220-1	220-1	220-1	-	-	-
		-	-	-	-	-	-	400-3	400-3	400-3	400-3	400-3
Nominal power input	kW											
Cooling		0.45	0.53	0.81	0.85	1.48	1.68	1.94	2.42	2.68	3.17	4.03
Heating		0.46	0.57	0.92	0.81	1.53	1.75	1.88	2.65	2.57	3.49	3.91
Full load current	A	2.7	3.7	4.5	5.9	8.6	10.4	11.214.3*	17.215.9*	6.0	7.5	9.9
Compressor												
Rated load current	A	2.3	2.7	3.9	4.2	6.8	8.2	9.113.3*	11.514.2*	5.5	5.9	8.2
Locked rotor current	A	15.0	18.8	22.2	27.0	45.0	51.0	54.0125.0*	83.0132.0*	34.5	42.0	61.8

\* First value for 220 V, second value for 400 V.

### Dimensions/clearances, mm

50RHE	006	009	012	015	019	024	030	036	042	048	060
A	568	568	568	568	568	568	568	568	568	568	645
B	1095	1095	1095	1095	1095	1095	1095	1351	1351	1580	1808
C	287	287	287	439	439	439	490	490	490	490	541

Leave 610 mm clearance space for service access at the compressor end, and optionally at the compressor service panel side.





## FEATURES

- Eleven sizes with nominal cooling capacities from 1.5 to 13.7 kW and nominal heating capacities from 1.8 to 16.8 kW
- Units are designed for installation in ceiling voids. They may be connected to indoor ductwork and are suitable for closed water boiler/tower loop and geothermal applications.
- High efficiency design using R-407C.
- Casings are made of heavy gauge galvanised sheet metal treated for maximum corrosion protection.
- Compressors use isolating springs mounted on an isolated railing system to maximise vibration isolation and minimise transmission to the unit structure.
- Units are available in a variety of supply and return air flow configurations.
- All internal surfaces are lined with thermo-acoustic insulation for quiet operation.
- Factory-installed hanger isolation brackets permit easy installation.
- Access to compressor section provided by large removable panels on three sides for easy maintenance.
- Thermostatic expansion valve (TXV) provides efficient and reliable refrigerant flow.
- State-of-the-art microprocessor control system includes the following features:
  - Standard condensate overflow sensor
  - Compressor short cycle prevention
  - Random start delay
  - High/low refrigerant pressure safeties
  - Automatic intelligent reset
  - Freeze protection
  - Performance monitor

## OPTIONS/ACCESSORIES

- Cupro-nickel heat exchanger
- Sound attenuation package
- Extended range operation (below 15°C)
- Deluxe D control system
- Automatic flow regulators
- Two-way motorised water control valve