

## VXT

**GEOHERMAL water/water reversible heat pump**  
**Heating, cooling and domestic hot water**

R410A



- **DOMESTIC HOT WATER: DHW TEMPERATURE UP TO 55°C**
- **180 LITRE DHW STORAGE TANK**
- **SUITABLE FOR FUNCTIONS IN GEOTHERMICS**
- **SET-UP FOR SOLAR PANEL INTEGRATION**

### Features

The VXT heat pump provides winter heating and summer air conditioning of the home.

VXT also produces domestic hot water: DHW temperature to 55°C

Small indoor units making them very easy to insert in a kitchen for example or even inside a cabinet like the type used to contain a fridge. The careful choice of the sound-absorbent materials makes the unit particularly silent.

#### Main features:

##### Cooling circuit

- R410A refrigerant
- Refrigerant side cycle inversion
- Scroll compressors
  - High level of reliability
  - High efficiency to guarantee the production of water up to 55°C, also suitable for traditional radiator plants.
- Externally isolated plate heat exchangers to decrease heat loss and optimised to obtain high efficiency
- Biflow electronic expansion valve;
- High and low pressure transducers and pressure switches

##### Hydraulic circuit

The unit is equipped, as per standard, with all components useful for correct and safe functioning of the same.

##### User side: envisions

- 3-speed circulation pump;
- expansion vessel;
- Safety valve;
- Braze-welded heat exchanger plates:

##### DHW side: envisions

- 180 litre storage tank with coil for the production of hot water using the heat of condensation;
- plate heat exchanger for the instantaneous production of hot water;
- 2 integrative electrical resistances.
- tank with connections for solar panels.
- water filter mounted at the inlet of the plate heat exchanger
- Mixer valve with manual calibration

##### Options

- Integrative electric resistances

**Geothermic application:** it is possible to have

- ON-OFF pump;
- Pump with phase cut set-up
- Inverter Pump

**Water sheet application:** it is possible to have

- 2-way modulating valve

##### Electronic control

- The microprocessor supplied manages control of:
  - hydraulic pumps on the system and geothermic circuit sides;
  - radiant plant temperature and humidity probes;
  - DHW boiler temperature probe;
  - external air temperature probe for the compensation of the system water set point;
  - system mixer valve;
  - optional solar integration control kit;
  - management of up to two ambient zones with digital inputs.

## Accessories

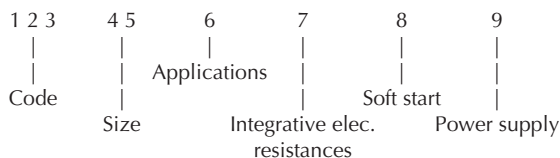
- **KST** : Solar heat kit.
- **KFC** : Free-cooling kit.
- **PGD0** : Remote control panel
- **VT** : Group of 4 anti-vibration mounts

Compatibility of accessories					
	VXT 06	VXT 08	VXT 10	VXT 14	VXT 16
KST	✓	✓	✓	✓	✓
KFC	06	08	10	14	16
PGD0	✓	✓	✓	✓	✓
VT 15	✓	✓	✓	✓	✓

## Selection

By appropriately combining the variety of options available, it is possible to configure every model in a manner that satisfies all specific implant requirements.

### Fields configurator:



### Code:

VXT

### Size:

06 - 08 - 10 - 14 - 16

### Applications:

- P - ON-OFF pump
- F - Pump with phase cut set-up
- X - Inverter Pump
- V - With 2-way modulating valve

**FOR GEOTHERMIC APPLICATIONS**  
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**FOR APPLICATIONS WITH WATER SHEET**

### Electric resistances:

- ° - Standard (without DHW integrative resistances)
- R - With DHW integrative resistances

### Soft-start: (as per standard for the 230V ~ 50Hz versions)

- ° - Standard (without soft-start)
- S - With Soft-start kit 400V 3N~ 50Hz

### Power supply:

- M - 230V ~ 50Hz
- T - 400V 3N~ 50Hz

## Technical data

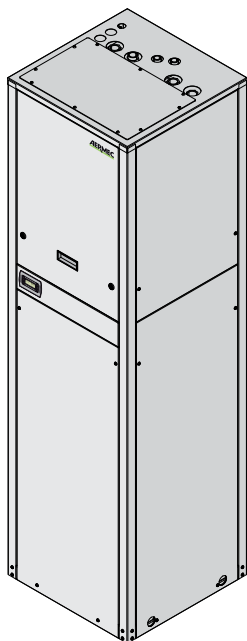
VXT			06	08	10	14	16
<b>HEATING MODE FUNCTIONING 30/35 °C - 10/5 °C (Floor system)</b>							
Heating capacity	kW	230V	7.6	9.7	12.3	-	-
		400V	7.6	9.9	12.3	16.4	18.6
Total power absorption	kW	230V	1.6	2.0	2.6	-	-
		400V	1.6	1.9	2.4	3.2	3.6
COP		230V	4.75	4.85	4.73	-	-
		400V	4.75	5.21	5.13	5.13	5.17
Current absorbed	kW	230V	8	10.6	13.3	-	-
		400V	3.6	3.4	5.3	7.3	7.5
Water flow rate at the condenser	l/h	230V	1310	1670	2120	-	-
		400V	1310	1700	2110	2820	3200
Water consumption at the evaporator	l/h	230V	1050	1350	1700	-	-
		400V	1050	1390	1720	2300	2610
<b>HEATING MODE FUNCTIONING 40/45 °C - 10/5 °C (Fan coils)</b>							
Heating capacity	kW	230V	7.52	9.28	12.18	-	-
		400V	7.52	9.47	11.76	16.24	17.79
Total power absorption	kW	230V	2.21	2.59	3.25	-	-
		400V	2.07	2.46	3.00	4.00	4.50
COP		230V	3.40	3.58	3.75	-	-
		400V	3.63	3.85	3.92	4.06	3.95
Current absorbed	kW	230V	10.7	13.4	16.4	-	-
		400V	4.2	4.6	6.3	8.9	8.8
Water flow rate at the condenser	l/h	230V	1290	1600	2090	-	-
		400V	1290	1630	2020	2790	3060
Water consumption at the evaporator	l/h	230V	930	1170	1560	-	-
		400V	960	1230	1530	2140	2320
<b>COOLING MODE FUNCTIONING 23/18 °C - 30/35 °C (Floor system)</b>							
Cooling capacity	kW	230V	8.7	10.5	13.6	-	-
		400V	8.5	10.1	13.7	17.8	20.3
Total power absorption	kW	230V	1.7	2.0	2.5	-	-
		400V	1.6	1.9	2.4	3.3	3.5
EER		230V	5.12	5.25	5.44	-	-
		400V	5.31	5.32	5.71	5.39	5.80
Current absorbed	kW	230V	8.2	10.7	13.5	-	-
		400V	3.7	3.6	5.4	7.5	7.5
Water flow rate at the evaporator	l/h	230V	1500	1810	2340	-	-
		400V	1450	1740	2360	3070	3500
Water consumption at the condenser	l/h	230V	1770	2140	2750	-	-
		400V	1720	2060	2760	3600	4080
<b>COOLING MODE FUNCTIONING 12/7 °C - 30/35 °C (Fan coils)</b>							
Cooling capacity	kW	230V	6.21	7.89	10.23	-	-
		400V	6.39	8.21	10.3	13.38	15.26
Total power absorption	kW	230V	1.71	2.01	2.51	-	-
		400V	1.61	1.92	2.41	3.32	3.52
EER		230V	3.63	3.93	4.08	-	-
		400V	3.97	4.28	4.27	4.03	4.34
Current absorbed	kW	230V	8	10.6	13.3	-	-
		400V	3.6	3.4	5.3	7.3	7.5
Water flow rate at the evaporator	l/h	230V	1070	1360	1760	-	-
		400V	1100	1410	1770	2300	2620
Water consumption at the condenser	l/h	230V	1350	1690	2170	-	-
		400V	1360	1730	2170	2840	3200
Maximum current absorbed (FLA)	A	230V	16.0	19.0	23.0	-	-
		400V	5.5	6.0	8.0	10.0	11.8
Peak current with Soft-start	A	230V	29.5	37.5	45.0	-	-
Peak current (LRA)	A	400V	32.0	35.0	48.0	64.0	64.0
♪ Sound pressure	db(A)		35.0	37.0	37.0	39.0	41.5

### Performance in compliance with the EN 14551:2004 Standard

#### Sound pressure

Environment volume of 80m<sup>3</sup>, reverberation time 0.5s, distance 3 metres and directionality factor 4.

## Dimensions (mm)



VXT.		06	08	10	14	16
Height	mm	2000	2000	2000	2000	2000
Width	mm	560	560	560	560	560
Depth	mm	560	560	560	560	560
Weight	kg	254	256	268	283	291