

Vitronic Water E

Water cooled water chillers and heat pump units with semihermetic screw compressors.



Unit description

- **Compressor** screw semihermetic type R407C.
- **Evaporator** thermally insulated shell and tube type with differential pressure switch and antifreeze protection electric heater.
- **Condenser** shell and tube type with differential pressure switch.
- **De-superheater** shell and tube type (setting up D).
- **Total heat recovery** shell and tube type (setting up R).
- **Microprocessor control system** by Thermologic.
- **Supporting structure** in galvanised steel with powder paint anti-corrosive (RAL 9007).

Versions

VC water cooled packaged water chillers

VH water cooled packaged water chillers for heat pump operation by reversing the water supply from the condenser and evaporator to the plant

VME condenserless units to be connected to remove condenser

Accessories mounted in factory:

- Additional unloading steps;
- Power factor correction;
- Over/under voltage + phase failure protection relay;
- Compressors overload protection;
- Ground fault protection;
- Liquid receivers (for condenserless ME units only);
- Condenser Cu/Ni 90/10;
- Compressor sound absorption enclosure;
- Control panel electric heater with thermostat;
- Electronic expansion valve;
- Soft start;
- Automatic switches for compressors;
- Clock card;
- Ammeter and voltmeter;
- Over/under voltage + phase failure relay;
- Star/Delta compressor starting.

Data referred to:

COOLING: evaporator water temperature in/out 12/7°C -

condenser water temperature in/out 30/35 °C.

HEATING: evaporator water temperature in/out 15/10°C -

condenser water temperature in/out 40/45°C.

Accessories supplied loose:

- Remote control display (Thermologic);
- Network control through a local PC with dedicated software (as additional accessory) under Windows by serial output RS 232;
- Network control through a remote PC with dedicated software (as additional accessory) under Windows by gateway and modem;
- Connection to BMS control by serial output RS 232, gateway and protocol MOD-BUS;
- Flow switch;
- Water strainer;
- Rubber anti-vibration set;
- Spring anti-vibration set.

DIMENSIONS AND WEIGHTS

Sizes	Length mm	Width mm	Height mm	Kg
1200V	3370	850	1450	1490
1230V	3370	850	1470	1660
1250V	3370	850	1470	1920
1300V	3370	850	1550	2070
1340V	3460	900	1550	2200
1400V	3560	950	1620	2400
1430V	3570	1030	1650	2670
1490V	3570	1030	1750	2720
2250V	3520	850	1750	2210
2280V	3560	850	1820	2250
2310V	3560	850	1820	2290
2330V	3560	850	1820	2400
2350V	3560	850	1820	2715
2370V	3820	850	1980	2750
2400V	3820	850	1980	2760
2430V	3820	850	2070	2890
2450V	3820	850	2070	2940
2500V	3920	1200	2090	3410
2550V	3920	1200	2090	3650
2600V	3920	1200	2090	3670
2680V	3920	1200	2190	4010
2730V	3920	1200	2240	4150
2790V	3920	1200	2240	4220
2850V	4045	1200	2240	4410
2910V	4045	1200	2290	4766
2970V	4045	1200	2290	5080
31030V	3950	1600	2220	4930

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C Cooling Capacity kW	198	223	247	300	324	387	432	480	250	279	307	326	346	370	395	421	446	494	547	599	701	756	805	864	912	961	1081
Compressors input kW	54	58,4	64,8	74,1	76,3	89,7	99,3	109,8	64,2	71,2	78,3	81,8	85,4	96,8	108,1	112,5	116,8	129,5	138,9	148,2	162,7	175,6	186,1	198,6	209,1	219,6	251,9
H Heating capacity kW	251	280	311	372	393	467	521	579	313	348	383	407	430	465	501	531	561	622	683	745	848	914	972	1043	1101	1158	1308
Sound pressure levels (1)	60	60	61	61	61	62	63	64	60	61	61	62	62	63	63	63	63	64	64	64	65	65	66	66	66	67	67

C Chiller **H** Heat pump

(1) Sound pressure level along the longitudinal axis at 10m distance from unit surface and 1m height from the ground.



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