



Vitronic air

Air cooled water chillers with axial fans and semihermetic screw compressors.

Unit description

- **Compressor** semihermetic screw type R407C.
- **Evaporator** direct expansion shell and tube type or plate type.
- **Condenser coils** with seamless copper tubes and aluminium fins.
- **Fan** axial type.
- **Microprocessor control system** by Thermologic.
- **Structure and panels** in galvanised steel with paint anti-corrosive (RAL 9007).

Versions

VC air cooled water chiller

Energy applications setting-up

D : setting-up with de-superheater (partial recovery) mounted in factory.

R : setting-up with heat recovery (total recovery) mounted in factory.

Applications for different geographical areas

NT : standard setting-up with 2 unloading steps (outdoor temperature max 42°C).

HT : high temperature setting-up with oversized coils (outdoor temperature max 45°C).

Acoustic applications

LN : Low Noise setting-up (with insulated compressors housing and two speed fan motors).

SLN : Super Low Noise setting-up (with insulated compressors housing, oversized coils and variable fan speed regulation).

Data referred to:

CHILLERS: outdoor temperature 35°C - chilled water 12/7°C.

Accessories mounted in factory:

- 2 additional unloading steps;
- Cooling capacity stepless control;
- Compressor suction stop valves;
- Low ambient ON-OFF condensing control (up to +5 °C outdoor temperature);
- Low ambient variable fan speed control device (up to -10 °C outdoor temperature);
- Power factor correction to COS phi 0.91;
- Over/under voltage +phase failure protection relay;
- Compressors overload protection;
- Control panel electric heater with thermostat;
- Condensing coil protection grille;
- Epoxy coated condensing coils;
- Copper/copper condensing coils;
- Tinned copper/copper condensing coils;
- Double set point operation;
- Electronic expansion valve;
- Soft start;
- Automatic switches for compressors and for fans;
- Counterflange;
- Low outdoor temperature kit (for ZC);
- Clock card;
- Ammeter and voltmeter;
- Over/under voltage + phase failure relay.

Accessories supplied loose:

- Remote control display;
- 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;
- Water gauges;
- Rubber anti-vibration set;
- Spring anti-vibration set;

| Sizes | 1180V | 1210V | 1230V | 1280V | 1340V | 1370V | 1420V | 2190V | 2210V | 2230V | 2260V | 2280V | 2300V | 2320V | 2340V | 2360V | 2380V | 2400V | 2440V | 2490V | 2530V | 2570V | 2620V | 2670V | 2710V | 2760V | 2810V | |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Cooling Capacity | kW | 178 | 201 | 224 | 271 | 333 | 364 | 416 | 182 | 205 | 227 | 253 | 279 | 296 | 312 | 335 | 357 | 380 | 400 | 434 | 481 | 527 | 570 | 616 | 666 | 706 | 757 | 807 |
| Compressors input | kW | 64,3 | 69,2 | 76,8 | 87,5 | 111,3 | 128 | 146 | 65,3 | 70,1 | 75,7 | 84,2 | 92,7 | 97,5 | 102,3 | 115,5 | 128,6 | 133,5 | 138,3 | 153,6 | 164,3 | 174 | 205 | 215 | 233 | 256 | 274 | 292 |
| Sound pressure levels (1) | dB(A) | 64 | 64 | 64 | 65 | 66 | 66 | 67 | 64 | 64 | 64 | 65 | 65 | 66 | 66 | 66 | 66 | 66 | 67 | 68 | 68 | 69 | 69 | 69 | 69 | 69 | 69 | 70 |
| DIMENSIONS length | mm | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 3530 | 5410 | 6630 | 6630 | 6630 | 6630 | 6630 | 6630 | 6630 | 6630 | 6630 |
| width | mm | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 | 2260 |
| height | mm | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 | 2350 |
| SHIPPING WEIGHTS | kg | 2740 | 2756 | 2841 | 2872 | 2973 | 3108 | 3374 | 2808 | 2831 | 2862 | 2873 | 2904 | 2961 | 3026 | 3166 | 3251 | 3326 | 3390 | 5039 | 5958 | 5978 | 6105 | 6185 | 6240 | 6470 | 6540 | 6600 |

(1) Sound pressure level condensing coil side at 10m distance from the unit surface and 1m height from the ground.



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Designed for economy and efficiency

TES VITRONIC AIR 0305