

Air Cooled Scroll Chiller



Feature:

- □ High cooling capacity, low power consumption
- Low starting torque
- Silent and low vibration
- □ High efficiency , durable and easy maintenance
- □ Intelligent electronics protector for motor compressor

Low power consumption and Easy maintenance

thermo Q presents the line of Air cooled packaged Scroll Water Chiller . Range from 4 to 34 TR Capacity.

Economical, easy installation and operation in a complete packaged design. Ideal for modern cooling applications in industrial process plant .

All units are compact, completely factory assembled, shape and modular system to be installed as outdoor and weather proof, its can reach on site easy to handling on transportation.

The unit is pressure tested, evacuated and fully charge with Refrigerant 22

Main Components

Durable Scroll Compressor

With Copeland Scroll Compressor, End Users can improve the reliability of their refrigeration system and reduce their running costs:

- Annual running cost reduction with increased compressor seasonal efficiency
 - Smaller compressors that are easier to service and replace
- No risk of capacity shortfall at high ambient conditions Stable operation and less compressor Cycling

Improved reliability: less installed compressors, better oil return No need to use a mechanical subcooler between the medium and low temperature circuits and over sizing the medium temperature rack is no longger necessary.





The highly efficient and compact Cross finned coil type are designed with corrugated surface aluminum fins and extended surface in inner tube. Outdoor fan with best quality fan made convenience with low noise level , saving energy and high ambient resistance temperature use until 60 $^{\circ}$ C . Axial type with external rotor motor , IP 54 motor protector and Class F insulation (DIN EN 60 034-1)

The fan motor totally encloses weather proof type.

High efficiency Evaporator

Dry expansion Shell and Tube type Evaporator, compact and height efficiency heat transfer.

All evaporator equipped with Anti freeze to protect the cooling tube from being damage due to chilled water freeze up and chilled water temperature sensor to reduce precision chilled water temperature.

A drain plug is provided in the evaporator inlet pipe to extract chilled water . Manufacture standard TEMA , ASTM .



Protection and safety control equip.

Dual pressure switch , Freezing protection thermostat , Oil pressure safety switch , Thermostat control .

Easy maintenance and safe

Unit full equipped witch operation indicator , hi / low pressure indicator ; temperature indicator . Liquid receiver and stop valve an attached on the liquid line for refrigerant pump down. Sight glass , filter drier and a moisture indicator

Optional features

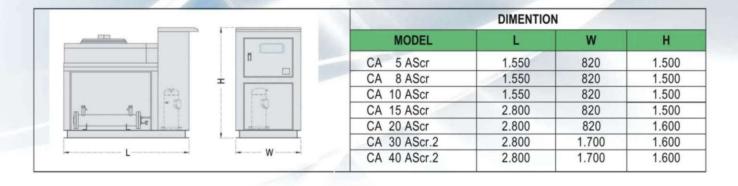
- Ozone friendly refrigerant use
- Brine Chiller with chilled water temp min 40 °C
- Heat recovery from refrigerant to reduce hot water

SPECIFICATION DATA

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|---|-----------|-----------------------------|---|-------------------|----------|-----------|--|-----------|-----------|--|--|
| MODEL | | CA Series | 5 AScr | 8 AScr | 10 AScr | 15 AScr | 20 AScr | 30 AScr.2 | 40 AScr. | | |
| COOLING CAPACITY * (KW) | | 15.33 | 21.5 | 28.5 | 42.0 | 55.6 | 84.0 | 111.2 | | | |
| TOTAL POWER CONSUME (KW) | | | 4.92 | 6.72 | 9.24 | 12.68 | 117.33 | 25.36 | 34.66 | | |
| COMPRESSOR | T | уре | Full Hermetic - SCROLL | | | | | | | | |
| | Н | P | 5 | 7.5 | 10 | 15 | 20 | 2 X 15 | 2 X 20 | | |
| | V | ol/Ph/Hz | 380/3/50 | | | | | | | | |
| | P | ower Consume (KW) | 4.16 | 5.94 | 7.68 | 11.12 | 14.99 | 11.12 X 2 | 14.99 X 2 | | |
| | Qty./Unit | | 1 2 | | | | | | | | |
| CONDENSER | С | Туре | Corrugated Fin | | | | | | | | |
| | 0 | Material | Aluminium Fin & Inner Groove Copper Tube | | | | | | | | |
| | L | Fin Pitch (FPI) | | | | 13 | 1 7 | | | | |
| | | Туре | Propeller Fan ; Vertical Discharge ; Direct Drive | | | | | | | | |
| | F | Q'ty /Dia (mm) | 1 / 500 | 1/500 | 2/ 500 | 2/500 | 3/ 500 | 4 / 500 | 6 / 500 | | |
| | A | V/Ph/Hz | 380 / 3 / 50 | | | | | | | | |
| | N | Power consume (KW) | 0.78 | 0.78 | 1.56 | 1.56 | 2.34 | 3.12 | 4.68 | | |
| | | | | | 11 6 | | | | | | |
| REFRIGERANT Type | | | R-22 | | | | | | | | |
| EVAPORATOR Type | | Dry Exspansion Shell & Tube | | | | | | | | | |
| No. of Circuit | | | | | | | | 2 | | | |
| Chilled Water Flow Rate - Min / Max (Lt /min) | | | 45 ~ 64 | 62 ~ 88 | 81 ~ 114 | 120 ~ 168 | 158 ~ 221 | 240 ~ 336 | 316 ~ 44 | | |
| Chilled Water Temp.In/Out (°C) | | | | | ~ 114 | 12/7 | 221 | | | | |
| Water Connection In/Out (Inch) | | | DN 32 | DN 38 | DN 38 | DN 50 | DN 50 | DN 75 | DN 75 | | |

IMMERSE COIL EVAPORATOR

| MODEL | CA Series | 5 CScr | 8 CScr | 10 CScr | 15 CScr | 20 CScr | 30 CScr.2 | 40 CScr.2 |
|------------|-------------------|--|--------|---------|---------|---------|-----------|-----------|
| EVAPORATOR | Type | Immerse Coil | | | | | | |
| | Tank Volume (Ltr) | 120 | 180 | 240 | 360 | 480 | 700 | 900 |
| | Material | SUS 304 plate - Hermaflex Insullation - SUS 304 Jacket cover | | | | | | |





Fabrikator :

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