

Air-Cooled Chiller

Technical features - translated from the Turkish 2023 catalogue.

Product features

- Automatic condenser cleaning
- Automatic snow removal and condenser-fan ice breaking in winter operating mode
- Evaporator UV-C insulation
- Evaporator water flow switch
- Evaporator extension pipes
- Evaporator water-line differential-pressure sensor
- Circulation-pump start/stop output
- UV-C-protected digital HMI control panel
- Class 2 painted-steel casing
- EC/AC axial or radial fan
- Compressor acoustic jacket or sound enclosure
- Automatic water filling
- Cooling operation in winter
- Built-in circulation pump
- Built-in plate heat exchanger for the primary circuit
- Four-unit cascade connection
- Water-line strainer
- Liquid injection for protection of compressor efficiency
- Economizer function for protection of compressor efficiency
- High oil-temperature control using an intercooler

Control and automation

- Advanced user interface
- Authorised user/service/administrator menus
- BMS integration
- SCADA monitoring
- Fault recording and tracking
- Mains supply and current monitoring
- Weekly programme
- Operating-hours monitoring
- Four-unit cascade connection and management
- Equal-ageing scenario
- Summer/winter mode and operation management
- Refrigerant pressure and temperature information
- Water-flow and pressure information

Air-Cooled Chiller - components

Condenser

- Copper tubes with aluminium fins
- Aluminium channels with aluminium fins (microchannel)
- Drain channel
- Protective cover
- Efficient airflow distribution
- Free-cooling coil: copper tubes with aluminium fins
- Surface protective coating suitable for outdoor conditions

Evaporator

- Shell-and-tube or plate heat exchanger
- 1/2/3/4 refrigerant circuits
- 1/2 water circuits
- Water drain valve
- Operation with water, ethylene glycol or propylene glycol
- Four-direction water-pipe outlets
- Hot-gas valve

Compressor

- Screw or scroll compressor
- Single, tandem or trio compressor connection
- Over-temperature protection
- Over-current protection
- Oil heater
- Gas inlet and outlet temperature information
- Oil-cooler outlet

Refrigerant circuit

- Factory-charged refrigerant
- Electronic expansion valve
- High/low-pressure transducers
- High/low-pressure switches
- Filter drier
- Refrigerant sight glass
- Liquid shut-off valve
- Oil-balancing line (tandem/trio)

Air-Cooled Heat Pump

Technical features - translated from the Turkish 2023 catalogue.

Product features

- 2-pipe / 2-pipe Plus / 4-pipe / 6-pipe configurations
- Hot-water outlet range: 90°C - 45°C
- Automatic condenser cleaning
- Efficient operation at the balance point
- Automatic snow removal and condenser-fan ice breaking in winter operating mode
- Evaporator UV-C insulation
- Evaporator water flow switch
- Evaporator extension pipes
- Evaporator water-line differential-pressure sensor
- Circulation-pump start/stop output
- UV-C-protected digital HMI control panel
- Class 2 painted-steel casing
- EC/AC axial or radial fan
- Compressor acoustic jacket or sound enclosure
- Automatic water filling
- Built-in circulation pump
- Built-in plate heat exchanger for the primary circuit
- Four-unit cascade connection
- Water-line strainer
- Liquid injection for protection of compressor efficiency
- Efficiency protection for a liquid-injection compressor
- Economizer function for protection of compressor efficiency
- High oil-temperature control using an intercooler

Control and automation

- SDO Smart Defrost (continuous heating)
- Advanced user interface
- Authorised user/service/administrator menus
- BMS integration
- SCADA monitoring
- Fault recording and tracking
- Mains supply and current monitoring
- Weekly programme
- Operating-hours monitoring
- Four-unit cascade connection and management
- Equal-ageing scenario
- Summer/winter mode and operation management
- Refrigerant pressure and temperature information
- Water-flow and pressure information

Air-Cooled Heat Pump - components

Condenser

- Copper tubes with aluminium fins
- Drain channel
- Protective cover
- Efficient airflow distribution
- Hot-gas valve
- Surface protective coating suitable for outdoor conditions

Evaporator

- Shell-and-tube or plate heat exchanger
- 1/2/3/4 refrigerant circuits
- 1/2 water circuits
- Water drain valve
- Operation with water, ethylene glycol or propylene glycol
- Four-direction water-pipe outlets
- Stainless-steel or titanium option

Compressor

- Screw or scroll compressor
- Single, tandem or trio compressor connection
- Over-temperature protection
- Over-current protection
- Oil heater
- Gas inlet and outlet temperature information
- Oil-cooler outlet

Refrigerant circuit

- Compressor, refrigerant and air-cooled condenser
- Electronic expansion valve, sight glass, filter drier and charging valve
- Low/high-pressure switches and suction-line gas-temperature sensor
- High efficiency with suction-line vapour control

Water-Cooled Chiller

Technical features - translated from the Turkish 2023 catalogue.

Product features

- 2-pipe / 2-pipe Plus / 4-pipe / 6-pipe configurations
- Hot-water outlet range: 90°C - 45°C
- Efficient operation at the balance point
- Evaporator and condenser UV-C insulation
- Evaporator and condenser water flow switches
- Evaporator and condenser extension pipes
- Evaporator and condenser water-line differential-pressure sensors
- Circulation-pump start/stop output
- UV-C-protected digital HMI control panel
- Class 2 painted-steel casing
- Compressor acoustic jacket or sound enclosure
- Automatic water filling
- Built-in circulation pump
- Built-in plate heat exchanger for the primary circuit
- Four-unit cascade connection
- Water-line strainer
- Liquid injection for protection of compressor efficiency
- Efficiency protection for a liquid-injection compressor
- Economizer function for protection of compressor efficiency
- High oil-temperature control using an intercooler

Control and automation

- Advanced user interface
- Authorised user/service/administrator menus
- BMS integration
- SCADA monitoring
- Fault recording and tracking
- Mains supply and current monitoring
- Weekly programme
- Operating-hours monitoring
- Four-unit cascade connection and management
- Equal-ageing scenario
- Summer/winter mode and operation management
- Refrigerant pressure and temperature information
- Water-flow and pressure information

Water-Cooled Chiller - components

Condenser

- Shell-and-tube or plate heat exchanger
- 1/2/3/4 refrigerant circuits
- 1/2 water circuits
- Water drain valve
- Operation with water, ethylene glycol or propylene glycol
- Four-direction water-pipe outlets

Evaporator

- Shell-and-tube or plate heat exchanger
- 1/2/3/4 refrigerant circuits
- 1/2 water circuits
- Water drain valve
- Operation with water, ethylene glycol or propylene glycol
- Four-direction water-pipe outlets

Compressor

- Screw or scroll compressor
- Single, tandem or trio compressor connection
- Over-temperature protection
- Over-current protection
- Oil heater
- Gas inlet and outlet temperature information
- Oil-cooler outlet

Refrigerant circuit

- Factory-charged refrigerant
- Electronic expansion valve
- High/low-pressure transducers
- High/low-pressure switches
- Filter drier
- Refrigerant sight glass
- Liquid shut-off valve
- Oil-balancing line (tandem/trio)