

OPTIONS	
Single P2 Pump	P2
Single P3 Pump	P3
Double P2 Pump	D2
Double P3 Pump	D3
Pressurized water wank	TP
Condenser anti-corrosion treatment	0EC
Shut-off compressors valves on suction and discharge	VSC
Evaporator anti-freeze heater	RA1
Evaporator and pump anti-freeze heaters	RA2
Evaporator, pump and tank anti-freeze heaters	RA3
Electrical switchboard anti-condensation heater	RS
Double set point (from MODBUS and/or keyboard)	WE
Continuous fans speed control - phase cut type (minimum ambient temperature -8.0°C)	CA
230V electric service plug (in the electric cabinet)	EBS
Compressors softstarters	SFS [1]
Compressors acoustic shields	Al1
Condensers air filters	FP
Wind baffles kit	FWB
Flanged water connections kit (EN1092-1)	WC1
Threaded water connections kit (GAS)	WC2
Control panel roof kit	FPR
Rubber anti-vibration mountings for no tank units	FA1
Rubber anti-vibration mountings for units with tank	FA2
Automatic water filling kit	WF
Gateway for remote communication	ENB
Remote panel kit	ER
Barrier bag	PBB
Wooden base	PWB
Wooden crate (only for CFT 100÷200)	PWC

^{• [1]} Not available on all models. Contact our company.

SOME OTHER UNITS AVAILABLE IN OUR PREMIUM LINE





Архангельск (8182)63-90-72 Астана (7172)727-132 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Казахстан (772)734-952-31

Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 0 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Ярославль (4852)69-52-93 CFT

AIR-COOLED SCROLL COMPRESSOR CHILLERS

from 100 to 300 kW



DESCRIPTION

The CFT range consists on air cooled water chillers with axial fans suitable for outdoor installations. The family comprises 8 basic models with cooling capacities ranging from 100 to 300 kW.

STRUCTURE

Frame and cabinet are made up of a galvanized steel poweder coated. This makes CFT suitable for outdoor installations and harsh environments

The compressor cabinet is separate from the fan's section and is accessible on three sides to make control and maintenance easy

The hydraulic section is also easily accessible.

COMPRESSORS

The compressors are scroll type filled with lubricant oil. They are equipped with a crankcase heater, a check valve and are mounted on rubber anti-vibration blocks, protected by an electronic device controlling phase sequences to avoid any contrary rotation. Finally, an amperometric thermal protector is installed.

CONDENSERS

The microchannel condensers employed are more efficient and require a lower refrigerant charge (up to 35% less) compared to the traditional tube and fins type, while the alluminium structure avoids any galvanic risk.

An e-coating treatment, protecting the unit from UV and corrosion, is also available as optional.

REFRIGERATION CIRCUIT

a high pressure safety switch, a high and a low pressure circuit with one hydraulic circuit.





MICROPROCESSOR CONTROLLER

A single electronic controller in order to reduce spare parts. It is one of the best in the market and different options allow a customized software. It displays the unit operation at any time in order to control the water temperature and the current temperature, necessary especially in case of partial or total water flow blockages and it also indicates which safety switch has triggered. It is possible to read and set data from customers pc through the IP address of the unit. The RS485 port with Modbus RTU communication protocol is installed as standard while the LAN/Ethernet connection is optional.





CFT units are fitted with electronic expansion valves.

ELECTRONIC EXPANSION VALVE

These valves grant the best performance of the unit, a big flexibility against different working conditions and a safe control of the gas superheating, highly important for the protection of the compressor and for the unit reliability.

Fans are equipped with 6 pole, axial motors, low noise curved

When ambient temperature is very low or when the unit

operates with a reduced load, the option continuous fan

speed regulation is available. Rotation speed is then regulated

according to the condensing pressure thanks to a pressure

blades to improve rotation speed and a protection grid.

They are equipped with internal thermal protection.

HYDRAULIC CIRCUIT

The hydraulic circuit is highly customizable according to customer's requirements.

CFT are supplied for standard with water strainer and inlet/ outlet galvanized steel pipes.

ΕΛΛΣΟΣΥΤΟΣ

FANS

transducer.

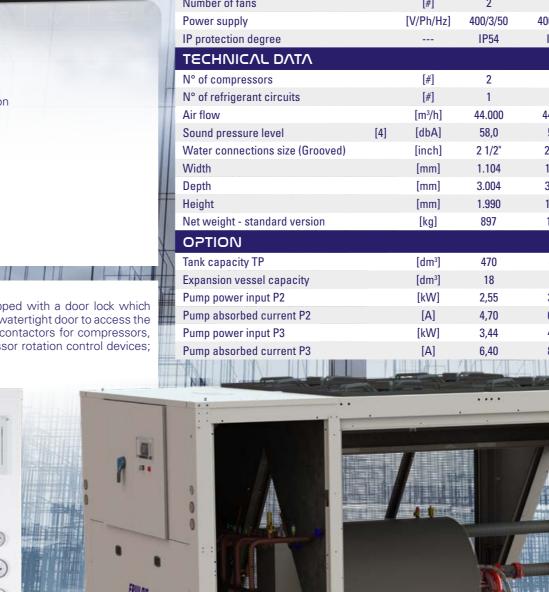
The refrigeration circuit is made up of high quality materials The evaporator is a brazed stainless steel plates type. This conforming to directive 2014/68/EU. It includes a dehydrator heat-exchanger is equipped with a water differential pressure filter, a solenoid valve on liquid line, a liquid sight glass flow, switch to protect it against low water flow issue and icing. an electronic thermostatic expansion valve, a manual reset, Units from CFT230 to CFT300 boast a double refrigeration

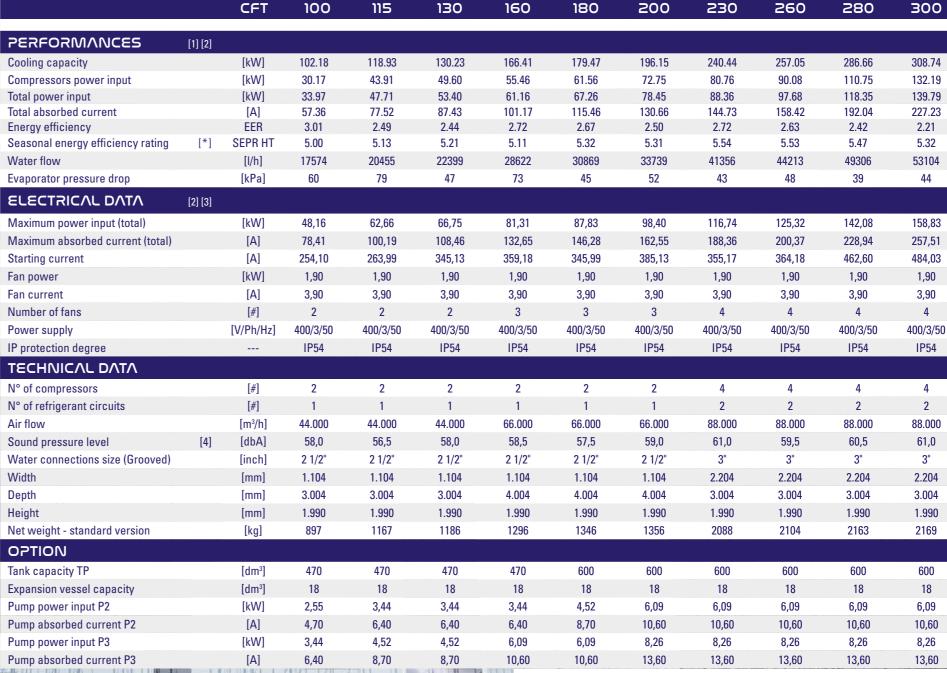
transducer, a HP and a LP refrigerant gauges and pressure This configuration is very efficient with partial loads compared to independent evaporator versions.

MAIN FUNCTIONS

- Ambient and water inlet and outlet temperature display
- Blocks display using alphanimeric codes and full description
- Management of one or two pumps
- Water differential pressure alarm delay at the start-up
- Operating counter for compressors
- Compressors and pumps automatic alternation
- No simultation activation of the compressors
- Anti-freeze protection
- Remote alarm and on/off remote alarm available via clean contact in terminal block

The control panel complies with EN 60204 CE and is equipped with a door lock which blocks the access to the control panel during operation, and a watertight door to access the electronic control. It includes circuit breaker protectors and contactors for compressors, fans and a pump as optional, autotransformers and compressor rotation control devices; the wires are identified.





- [*] Data in accordance with European Regulation (EU) 2016/2281 for eco-design requirements • [1] Data referred to: water temp. in/out: 12/7°C - ambient air temp. 35°C
- [2] Data referred to the unit without pump
- [3] Data related to the heaviest condition allowed, without the intervention of the safety devices
- [4] Data referred to 10m and at an height of 1,5 m in open field

OPERATING LIMITS

- Ambient temperature (without condensing control): +20°C/+43°C
- Ambient temperature (with condensing control): -8°C/+43°C



