



Air-Cooled Scroll Chiller FC50W

The Aggreko air-cooled fluid chillers are designed for water or water-glycol cooling. The units are completely assembled with all interconnecting refrigerant piping and internal wiring, ready for installation.

KEY DATA

COOLING CAPACITY 53 kW at 6°C leaving fluid temperature, 35°C ambient

ABSORBED POWER 24.1 kW

MAXIMUM AMBIENT TEMPERATURE 43°Cs

PHYSICAL DATA

LENGTH / WIDTH / HEIGHT 2.35m / 1.15m / 2.16m

WEIGHT 1655kg

PERFORMANCE DATA

DESIGN CAPACITY kW 53

DESIGN LEAVING FLUID TEMPERATURE °C 6

MINIMUM / MAXIMUM OUTLET FLUID TEMPERATURE °C -12 / 15

MINIMUM / MAXIMUM AMBIENT TEMPERATURE °C 3 / 43

EVAPORATOR DATA	UNIT	VALUE	REFRIGERANT DATA	UNIT	VALUE
TYPE		Plate	TYPE		R410A
MATERIAL		Stainless Steel 316	NUMBER OF CIRCUITS		1
DESIGN FLUID FLOW	L/s	2.23	TOTAL REFRIGERANT CHARGE	kg	18
MINIMUM / MAXIMUM FLOW	L/s	1.0 / 4.0	TYPE OF COMPRESSOR OIL		160SZ
PRESSURE DROP DESIGN FLOW	kPa	50	TOTAL OIL CHARGE	L	3.3
FLUID VOLUME	L	5			
MAXIMUM WORKING PRESSURE	kPa	1000	ELECTRICAL DATA	UNIT	VALUE
RECOMMENDED SYSTEM VOLUME	L	2000	DESIGN ELECTRICAL SUPPLY		415V-3ph-50Hz
			DESIGN ELECTRICAL RATING	kW	24.1
			DESIGN / MAXIMUM OPERATING CURRENT	A	34 / 54
			STARTING CURRENT	A	172
CONDENSER DATA	UNIT	VALUE	RECOMMENDED GENERATOR SET	kVA	60
NUMBER OF FANS		2	MINIMUM CABLE SIZE PER PHASE	mm ²	10
MOTOR POWER PER FAN	kW	1.85	CABLE CONNECTION TYPE		50A Clipsal
DESIGN AIR FLOW	m ³ /s	7.5			
FAN EXTERNAL STATIC PRESSURE	Pa	0	FLUID CONNECTIONS	UNIT	VALUE
			INLET - EVAPORATOR	mm	1 x 50 Camlock
			OUTLET - EVAPORATOR	mm	1 x 50 Camlock
COMPRESSOR DATA	UNIT	VALUE	AIR CONNECTIONS	UNIT	VALUE
TYPE		Scroll	INLET	∅ mm	2 x 500
NUMBER OF COMPRESSORS		2	OUTLET	∅ mm	2 x 500
NUMBER AND SIZE OF CAPACITY STEPS	No / %	2 / 50			
NOISE DATA	UNIT	VALUE			
SOUND PRESSURE LEVEL AT 10M	dB(A)kW	65			
SOUND POWER LEVEL	dB(A)kW	93			

*Equipment supplied may vary slightly

Fully-engineered temperature control rental solutions

Aggreko provides a full engineering, design and installation service to ensure the temperature needs of your process, facility, project, event or people are effectively met during any maintenance, breakdown, productivity improvement, seasonal heat and comfort cooling requirement conditions. With a team of experienced and dedicated TC specialists, Aggreko has the expertise to deliver complex temporary TC solutions across a diverse range of industries including HVAC, refining and petrochemical, manufacturing, food and beverage, mining, utility, construction, cold storage and events.

Full range of temperature control equipment

FLUID CHILLERS

- 50 kW to 1500 kW
- Air cooled and water cooled



AIR CONDITIONERS

- 4 kW to 200 kW
- Comfort, commercial and industrial cooling



AIR HANDLING UNITS

- 100 kW to 500 kW
- Can combine with chiller units



HEAT EXCHANGERS

- Flow rate 30 l/s to 70 l/s
- Corrosion-resistant material



FLUID PUMPS

- 3 l/s to 120 l/s
- Process water pumping for chiller and cooling tower loops



COOLING TOWERS

- 2500 kW and 10000 kW capacity
- Industrial and commercial applications



DEHUMIDIFIERS

- 700 l/s and 2000 l/s capacity
- Dry, moisture-free air for industrial purposes



HEATERS

- 50 kW to 500 kW
- Air (electric) and water (diesel-fired) heaters



Aggreko also owns a large fleet of gensets ranging from 30 kVA to 1250 kVA that can be supplied along with its TC range of equipment as a power source.



Heating and cooling **how** you need it,
when you need it, **where** you need it.

