



10 to 32 kW

HFC 407C



new

The **CD conditioners** belonging to the **DATA** series have been specifically designed and manufactured for close control air conditioning where the almost exclusive handling of sensible heat loads is a fundamental requirement.

The typical applications are computer rooms, digital telephone exchanges, switch rooms, weather stations, medical laboratories, CAT and MR scanners, as well as any other application where a sensible heat load must be dissipated without modifying the relative humidity.

The **CD models**, ranging from 10 up to 32 kW, are highly compact direct expansion units.

The CD can be air or water cooled and exists as either upflow or downflow, offering a large range of accessories and variations in design that allow for maximum flexibility in the use of these units.

The full range is available as single circuit and the larger models (072, 082 and 102) are also available with two independent circuits.

The use of "scroll" compressors, adequately sized fans and coils guarantee maximum reliability as well as a low noise level that meets current requirements.

> Features and options <

Features

- Direct drive double inlet centrifugal fan
- Hermetic scroll compressor
- Microprocessor control with LCD and user interface
- G4 filters
- Full frontal access to all components for standard maintenance

Options

- Double skin (sandwich) panels
- Backward blades direct drive centrifugal fan (plug fan)
- Humidity and / or dehumidification option

- Electric heaters
- Hot water coil
- Hot gas coil
- Back return air (only on upflow models)
- F5 or F7 pleated filters
- Advanced microprocessor control
- LAN or BMS connections
- Air delivery plenum
- Base frame adjustable

> Main technical data * <

Sizes		031	041	051	061	071	091	101	072	082	102
Total cooling capacity	kW	10.0	12.8	15.3	20.5	22.1	27.6	31.3	21.0	23.5	30.8
Sensible cooling capacity	kW	9.3	12.0	13.9	19.3	20.5	25.2	29.0	19.5	23.5	28.3
Supply fan nominal air flow	m ³ /s	0.75	1.11	1.11	1.67	1.67	1.94	2.36	1.67	1.67	2.36
Sound pressure level - Up-flow	dB(A)	52	55	55	55	56	57	58	55	55	57
Sound pressure level - Down-flow	dB(A)	48	51	51	51	52	53	54	51	51	53
Length	mm	650	840	840	1238	1238	1428	1618	1238	1238	1618
Width	mm	650	650	650	650	650	650	650	650	650	650
Height	mm	1970	1970	1970	1970	1970	1970	1970	1970	1970	1970

(*) Room air conditions 24 °C/50% RH, external air 32 °C.





20 to 103 kW HFC 407C

new

The **MD conditioners** belonging to the **DATA** series have been specifically designed and manufactured for close control air conditioning where the almost exclusive handling of sensible heat loads is a fundamental requirement.

The typical applications are computer rooms, digital telephone exchanges, switch rooms, weather stations, medical laboratories, CAT and MR scanners, as well as any other application where a sensible heat load must be dissipated without modifying the relative humidity.

The **MD models**, ranging from 20 up to 103 kW, are direct expansion units.

The MD can be air or water cooled and exists as either upflow or downflow, offering a large range of accessories and variations in design that allow for maximum flexibility in the use of these units.

The MD is also available as a DUAL COOL unit with two coils (one direct expansion and the other chilled water) or a Free Cooling unit.

Single circuit units are available from 20 up to 55 kW whereas twin circuit units with two independent circuits are available from 30 kW right up to 103 kW.

The use of "scroll" compressors, adequately sized fans and coils guarantee maximum reliability as well as a low noise level that meets current requirements.

> Features and options <

Features

- Backward blades direct drive centrifugal fan (plug fan)
- Hermetic scroll compressor
- Microprocessor control with LCD and user interface
- G4 filters
- Full frontal access to all components for standard maintenance

Options

- Double skin (sandwich) panels
- Humidity and / or dehumidification option
- Electric heaters

- Hot water coil
- Hot gas coil
- Back return air (only on upflow models)
- F5 or F7 pleated filters
- Advanced microprocessor control
- LAN or BMS connections
- Air delivery plenum
- Base frame adjustable

> Main technical data * <

Sizes		061	071	091	101	131	151	082	102	132	152	182	202	262	302
Total cooling capacity	kW	18.3	24.3	28.4	32.9	41.3	50.4	26.3	32.3	42.6	48.0	57.6	64.1	80.7	94.3
Sensible cooling capacity	kW	17.4	23.0	26.3	30.5	38.5	47.8	24.2	29.7	39.5	45.0	54.5	59.2	76.6	85.6
Supply fan nominal air flow	m ³ /s	1.39	2.08	2.08	2.50	3.61	3.89	2.08	2.50	3.61	3.89	4.44	4.44	6.94	6.94
Sound pressure level - Up-flow	dB(A)	55	61.5	61.5	60.5	64	66	61.5	60.5	64	65	67	67	67	68
Sound pressure level - Down-flow	dB(A)	51	57.5	57.5	56.5	60	60	57.5	56.5	60	61	63	63	63	64
Length	mm	860	1258	1258	1448	1885	2265	1258	1448	1885	2265	2265	2265	2853	2853
Width	mm	860	860	860	860	860	860	860	860	860	860	860	860	860	860
Height	mm	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980	1980

(*) Room air conditions 24 °C/50% RH, external air 32 °C.





15 to 200 kW HFC 407C

new



The **CW conditioners** belonging to the **DATA** series have been specifically designed and manufactured for large installations with centralised chilled water production in close control air conditioning where the almost exclusive handling of sensible heat loads is a fundamental requirement.

The typical applications are computer rooms, digital telephone exchanges, switch rooms, weather stations, medical laboratories, CAT and MR scanners, as well as many other application where a sensible heat load must be dissipated without modifying the relative humidity.

The **CW models**, ranging from 15 up to 200 kW, are extremely compact chilled water units, designed specifically to reduce space occupancy to an absolute minimum.

The CW exists as either upflow or downflow, offering a large range of accessories and variations in design that allow for maximum flexibility in the use of these units.

The use of adequately sized fans and coils guarantee maximum reliability as well as a low noise level that meets current requirements

> Features and options <

Features

- Backward blades direct drive centrifugal fan (plug fan)
- Modulating three way valve
- Microprocessor control with LCD and user interface
- G4 filters
- Full frontal access to all components for standard maintenance

Options

- Double skin (sandwich) panels
- Humidity and / or dehumidification option

- Electric heaters
- Hot water coil
- Back return air (only on upflow models)
- F5 or F7 pleated filters
- Advanced microprocessor control
- LAN or BMS connections
- Air delivery plenum
- Base frame adjustable

> Main technical data * <

Sizes		21	31	41	51	61	42	52	62	82	102	112	152	202
Total cooling capacity	kW	15.1	25.8	35.5	49.8	57.8	39.4	49.2	60.8	83.0	94.8	110.8	152.8	190.8
Sensible cooling capacity	kW	13.8	22.6	30.2	42.7	51.1	33.5	41.8	49.7	67.9	78.0	95.8	128.9	152.0
Supply fan nominal air flow	m ³ /s	1.11	1.45	1.81	2.78	3.33	2.36	2.72	3.75	4.86	5.56	6.94	10.0	10.83
Sound pressure level - Up-flow	dB(A)	54.5	56.0	58.5	59.0	61.5	58.0	60.0	62.0	65.0	63.0	64.0	67.0	68.0
Sound pressure level - Down-flow	dB(A)	50.5	52.0	54.5	55.0	57.5	54.0	56.0	58.0	61.0	59.0	60.0	63.0	64.0
Length	mm	650	840	1238	1428	1618	860	1258	1448	1885	1885	2265	2853	2853
Width	mm	650	650	650	650	650	860	860	860	860	860	860	860	860
Height	mm	1970	1970	1970	1970	1970	1980	1980	1980	1980	1980	1980	1980	2533

(*) Room air conditions 24 °C/50% RH, chilled water 7/12 °C.