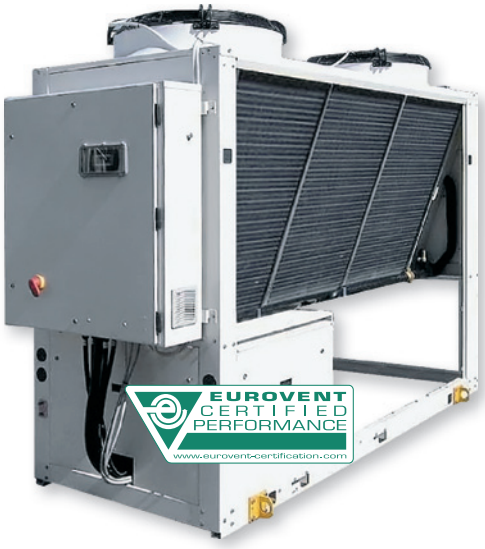
Condensing unit
AQVC 85–140

92-151 kW HFC 410A Scroll

Technical features

- 6 sizes.
- Cooling capacity from 43 to 85 kW.
- 2 versions:
  STD (Standard);
  SIF (Special Inverter Fans).
- 2 acoustic versions:
  BLN (Basic Low Noise);
  ELN (Extra Low Noise).
- One refrigerant circuit.
- Scroll compressors.



Accessories and options

- Unit protection grilles.
- Sofstart.
- BMS interface.
- Overload protection for compressors.
- Automatic circuit breaker.
- Fan speed control.
- Power factor corrector capacitors.
- Compressors acoustic box as standard.
- Sequence phases control.
- Coils treatments.
- Compressors jackets.

Operating limit

AQVC			85		95		105		115		125		140	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Evaporating limit		°C	from +1 to +15											
Air temperature	BLN	°C	from 0 to +48		from 0 to +48		from 0 to +48		from 0 to +48		from 0 to +48		from 0 to +48	
	ELN	°C	from -18 to +45		from -18 to +45		from -18 to +45		from -18 to +45		from -18 to +45		from -18 to +45	
	HT	°C	from 0 to +50		from 0 to +50		from 0 to +50		from 0 to +50		from 0 to +50		from 0 to +50	

Technical feature AQVC STD/HSE/HPF 85–140 BLN

Model AQVC BLN		85	95	105	115	125	140
Cooling capacity (1)	kW	92,1	103,2	113,2	121,8	134,7	151,0
Power input (2)	kW	25,3	29,3	32,0	34,9	38,3	43,4
Number of refrigerant circuits		2					
Part load steps	%	0-25-50 75-100	0-25-50 75-100	0-24-47-74-100	0-25-50 75-100	0-22-43-72-100	0-25-50 75-100
Power supply	V/ph/Hz	400/3/50					
Startup type		Direct					
Refrigerant							
Type		HFC 410A					
Compressor							
Qty		2					
Type		Scroll					
Crankcase heater	W	90	90	90	90	90	90
Condenser							
Qty		2					
Frontal surface	mm	2.000x1.200	2.000x1.200	2.000x1.200	2.000x1.200	2.600x1.200	2.600x1.200
Connection type		To be brazed					
Inlet diameter	inch	⅝″	⅝″	⅝″	⅝″	⅞″	⅞″
Outlet diameter	inch	1⅜″	1⅜″	1⅜″	1⅜″	1⅜″	1⅜″
Fan							
Qty		2					
Air flow	m^3/h	34.000	34.000	33.200	32.400	44.000	42.800
Speed	rpm/min	690	690	690	690	900	900
Power input	kW	2,1	2,1	2,1	2,1	3,4	3,4
Weight							
Shipping	kg	971	983	1.013	1.043	1.066	1.142
Dimensions							
Length	mm	2.555	2.555	2.555	2.555	3.155	3.155
Width	mm	1.095	1.095	1.095	1.095	1.095	1.095
Height	mm	2.185	2.185	2.185	2.185	2.185	2.185
Acoustical data							
Sound power level (3)	dB(A)	85	85	85	85	89	89
Sound pressure level at 10 m (4)	dB(A)	53	53	53	53	57	57

(1) Data based on 7°C water evaporating temperature and 35°C ambient air temperature.
(2) Only compressors.
(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tollerance +2dBA.
(4) Pressure power values in accordance with ISO 3744.

Technical feature AQVC STD/HSE 85–140 ELN

Modello AQVC ELN		85	95	105	115	125	140
Cooling capacity (1)	kW	89	99,4	108,7	116,6	131,6	147,2
Power input (2)	kW	26,8	31,3	34,3	37,5	39,8	45,2
Number of refrigerant circuits		2					
Part load steps	%	0-25-50 75-100	0-25-50 75-100	0-24-47-74-100	0-25-50 75-100	0-22-43-72-100	0-25-50 75-100
Power supply	V/ph/Hz	400/3+N/50					
Startup type		Direct					
Refrigerant							
Type		HFC 410A					
Compressor							
Qty		4					
Type		Scroll					
Crankcase heater	W	90	90	90	90	90	90
Condenser							
Qty		2					
Frontal surface	mm	2.000x1.200	2.000x1.200	2.000x1.200	2.000x1.200	2.600x1.200	2.600x1.200
Connection type		To be brazed					
Inlet diameter	inch	⅝″	⅝″	⅝″	⅝″	⅞″	⅞″
Outlet diameter	inch	1⅜″	1⅜″	1⅜″	1⅜″	1⅜″	1⅜″
Fan							
Qty		2					
Air flow	m^3/h	25.200	25.200	24.600	24.000	36.500	35.000
Speed	rpm/min	500	500	500	500	690	690
Power input	kW	1,8	1,8	1,8	1,8	2,1	2,1
Weight							
Shipping	kg	1.001	1.013	1.043	1.073	1.096	1.172
Dimensions							
Length	mm	2.555	2.555	2.555	2.555	3.155	3.155
Width	mm	1.095	1.095	1.095	1.095	1.095	1.095
Height	mm	2.185	2.185	2.185	2.185	2.185	2.185
Acoustical data							
Sound power level (3)	dB(A)	82	82	82	82	86	86
Sound pressure level at 10 m (4)	dB(A)	50	50	50	50	54	54

(1) Data based on 7°C water evaporating temperature and 35°C ambient air temperature.
(2) Only compressors.
(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tollerance +2dBA..
(4) Pressure power values in accordance with ISO 3744.

Technical feature AQVC HT 85–140

Model AQVC HT		85	95	105	115	125	140
Cooling capacity (1)	kW	95	106,8	117,7	127	137,2	153,8
Power input (2)	kW	23,9	27,4	29,8	32,3	37,1	42,1
Number of refrigerant circuits		2					
Part load steps	%	0-25-50 75-100	0-25-50 75-100	0-24-47-74-100	0-25-50 75-100	0-22-43-72-100	0-25-50 75-100
Power supply	V/ph/Hz	400/3+N/50					
Startup type		Direct					
Refrigerant							
Type		HFC 410A					
Compressor							
Qty		4					
Type		Scroll					
Crankcase heater	W	90	90	90	90	90	90
Condenser							
Qty		2					
Frontal surface	mm	2.000x1.200	2.000x1.200	2.000x1.200	2.000x1.200	2.600x1.200	2.600x1.200
Connection type		To be brazed					
Inlet diameter	inch	⅝″	⅝″	⅝″	⅝″	⅞″	⅞″
Outlet diameter	inch	1⅜″	1⅜″	1⅜″	1⅜″	1⅜″	1⅜″
Fan							
Qty		2					
Air flow	m^3/h	49.700	49.700	48.950	48.200	52.200	50.700
Speed	rpm/min	1.130	1.130	1.130	1.130	1.130	1.130
Power input	kW	4,6	4,6	4,6	4,6	4,6	4,6
Weight							
Shipping	kg	971	983	1.013	1.043	1.066	1.142
Dimensions							
Length	mm	2.555	2.555	2.555	2.555	3.155	3.155
Width	mm	1.095	1.095	1.095	1.095	1.095	1.095
Height	mm	2.185	2.185	2.185	2.185	2.185	2.185
Acoustical data							
Sound power level (3)	dB(A)	95	95	95	95	95	95
Sound pressure level at 10 m (4)	dB(A)	63	63	63	63	63	63

(1) Data based on 7°C water evaporating temperature and 35°C ambient air temperature.
(2) Only compressors.
(3) Acoustic data are at full load. Sound power values in accordance with ISO 3744 and Eurovent 8/1. Tollerance +2dBA.
(4) Pressure power values in accordance with ISO 3744.