

# Condensing unit

## AQC 40-75

 43-85 kW

 HFC 410A

 Scroll

### Technical features

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

### Accessories and options

- Fan speed control.
- Sequence phases control as standard.
- Automatic circuit breaker.
- Compressors acoustic box (standard on ELN).
- Softstart.
- Power factor corrector capacitors.
- Coils treatments.
- Coil grilles (standard).
- Compressors jackets (standard ELN).



### Operating limit

AQC				
Evaporating temperature (1)			°C	from 0 to +14
Ambient	Air temperature	BLN (2)	°C	from +5 to +44
		ELN (2)	°C	from +3 to +40
		SIF	°C	from -20 to +44

(1) -12°C with air ambient temperature between -3°C +40°C with fan speed control option.

(2) -18°C with fan speed control option.

**Technical feature AQC 40-75 BLN**

Model AQC BLN		40	45	50	60	65	75
Cooling capacity (1)	kW	43,2	48,8	56,9	67,4	73,8	84,5
Power input (2)	kW	13,0	15,3	17,8	18,7	21,6	26,3
Number of refrigerant circuits		1					
Part load steps	%	0-50-100	0-50-100	0-50-100	0-44-56-100	0-50-100	0-50-100
Power supply	V/ph/Hz	400/3/50					
Startup type		Direct					
<b>Refrigerant</b>							
Type		HFC 410A					
<b>Compressor</b>							
Qty		2					
Type		Scroll					
Crankcase heater	W	90					
<b>Condenser</b>							
Qty		1					
Frontal surface	mm	2.160x1.200	2.160x1.200	2.160x1.200	2.650x1.200	2.650x1.200	2.650x1.200
Number of rows		2	2	3	3	3	3
<b>Fan</b>							
Qty		1					
Air flow	m <sup>3</sup> /h	14.000	14.000	13.200	21.100	21.100	21.100
Speed	rpm/min	680	680	680	900	900	900
Power input	kW	0,98	0,98	0,98	2,00	2,00	2,00
<b>Refrigerant connection</b>							
Type		To be brazed					
Inlet diameter	inch	5/8"	5/8"	5/8"	7/8"	7/8"	7/8"
Outlet diameter	inch	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"
<b>Weight</b>							
Shipping	kg	391	399	422	456	466	469
<b>Dimensions</b>							
Length	mm	1.750	1.750	1.750	2.200	2.200	2.200
Width	mm	1.100	1.100	1.100	1.100	1.100	1.100
Height	mm	1.580	1.580	1.580	1.580	1.580	1.580
<b>Acoustical data</b>							
Sound power level (3)	dB(A)	80,5	81,0	81,0	85,5	85,6	85,8
Sound pressure level (4)	dB(A)	48,9	49,4	49,4	53,8	53,9	54,1

(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. Tolerance +2dBA.

(4) Pressure power values in accordance with ISO 3744.

### Technical feature AQC 40-75 ELN

Model AQC ELN		40	45	50	60	65	75
Cooling capacity (1)	kW	41,6	46,7	54,0	64,9	70,7	80,6
Power input (2)	kW	13,7	16,3	19,1	19,7	22,8	28,1
Number of refrigerant circuits		1					
Part load steps	%	0-50-100	0-50-100	0-50-100	0-44-56-100	0-50-100	0-50-100
Power supply	V/ph/Hz	400/3/50					
Startup type		Direct					
<b>Refrigerant</b>							
Type		HFC 410A					
<b>Compressor</b>							
Qty		2					
Type		Scroll					
Crankcase heater	W	90					
<b>Condenser</b>							
Qty		1					
Frontal surface	mm	2.160x1.200	2.160x1.200	2.160x1.200	2.650x1.200	2.650x1.200	2.650x1.200
Number of rows		2	2	3	3	3	3
<b>Fan</b>							
Qty		1					
Air flow	m <sup>3</sup> /h	11.000	11.000	10.300	16.000	16.000	16.000
Speed	rpm/min	530	530	530	720	720	720
Power input	kW	0.57	0.57	0.57	1.27	1.27	1.27
<b>Refrigerant connection</b>							
Type		To be brazed					
Inlet diameter	inch	5/8"	5/8"	5/8"	7/8"	7/8"	7/8"
Outlet diameter	inch	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"
<b>Weight</b>							
Shipping	kg	391	399	422	456	466	469
<b>Dimensions</b>							
Length	mm	1.750	1.750	1.750	2.200	2.200	2.200
Width	mm	1.100	1.100	1.100	1.100	1.100	1.100
Height	mm	1.580	1.580	1.580	1.580	1.580	1.580
<b>Acoustical data</b>							
Sound power level (3)	dB(A)	74,0	75,3	75,3	78,0	78,5	79,0
Sound pressure level (4)	dB(A)	42,4	43,7	43,7	46,3	46,8	47,3

- (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. Tolerance +2dBA.  
 (4) Pressure power values in accordance with ISO 3744.

**Technical feature AQC 40-75 SIF**

Model AQC SIF		40	45	50	60	65	75
Cooling capacity (1)	kW	45,8	52,1	61,3	68,4	75,2	85,9
Power input (2)	kW	11,9	13,9	16,0	18,3	21,1	25,6
Number of refrigerant circuits		1					
Part load steps	%	0-50-100	0-50-100	0-50-100	0-44-56-100	0-50-100	0-50-100
Power supply	V/ph/Hz	400/3/50					
Startup type		Direct					
<b>Refrigerant</b>							
Type		HFC 410A					
<b>Compressor</b>							
Qty		2					
Type		Scroll					
Crankcase heater	W	90					
<b>Condenser</b>							
Qty		1					
Frontal surface	mm	2.160x1.200	2.160x1.200	2.160x1.200	2.650x1.200	2.650x1.200	2.650x1.200
Number of rows		2	2	3	3	3	3
<b>Fan</b>							
Qty		1					
Air flow	m <sup>3</sup> /h	25.284	25.284	24.300	25.284	25.284	25.284
Speed	rpm/min	1.110	1.110	1.110	1.110	1.110	1.110
Power input	kW	2.67	2.67	2.67	2.67	2.67	2.67
<b>Refrigerant connection</b>							
Type		To be brazed					
Inlet diameter	inch	5/8"	5/8"	5/8"	7/8"	7/8"	7/8"
Outlet diameter	inch	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"
<b>Weight</b>							
Shipping	kg	391	399	422	456	466	469
<b>Dimensions</b>							
Length	mm	1.750	1.750	1.750	2.200	2.200	2.200
Width	mm	1.100	1.100	1.100	1.100	1.100	1.100
Height	mm	1.685	1.685	1.685	1.685	1.685	1.685

(1) Data based on 7°C water evaporating temperature and 35°C ambient air temperature.

(2) Only compressors.