

ACDX

Condensing unit 5 – 188 kW



R410a

ACDX overview

ACDX		101.5	101.8	102	102.5	103	104	105	106	107	108	109	110	113	115	218	220	224	226	230	336	339	345	452	460
Circuit(s)	n.															1									2
Compressor(s)	n.															1									4
Cooling cap *	kW	4.5	5.6	6.8	8	9.2	10.8	13.2	15.8	19.1	21.2	26.4	30.9	36.6	45.9	50.6	58.6	66.9	77.2	88.4	102	117	134	156	188
Picture																									

*= Average evaporating temperature 5 °C, ambient air temperature 35 °C.

ACDX Features & options 101.5 - 115



Features

- Structure with supporting frame, in peraluman and galvanized sheet.
- Rotary/Scroll compressor with internal overheat protection and crankcase heater, if needed.
- Axial fans with low ventilation and special wing profile, directly coupled to external rotor motors.
- Condenser in copper tubes and aluminium finned coil
- R410A refrigerant.
- Electrical board includes: main switch with door lock device, fuses and compressor remote control switch.

Factory fitted accessories

- **CC** Condensing control down to -20 °C
- **TX** Coil with pre-coated fins
- **RL** Liquid receiver
- **VS** Solenoid valve

Loose accessories

- **RP** Coil protection metallic guards
- **AG** Rubber shock absorbers

R410a

ACDX Features 101.5 - 115



1) Average evaporating temperature 5°C, ambient air temperature 35°C.

(2) Sound pressure level measured in free field conditions at 1m from the unit according to ISO 3744.

MODEL		101.5	101.8	102	102.5	103	104	105
Cooling	Cooling capacity ⁽¹⁾	kW	4.5	5.6	6.8	8.0	9.2	10.8
	Absorbed power ⁽¹⁾	kW	1.4	1.8	2.1	2.5	2.9	3.7
Compressor	Quantity	n°	1	1	1	1	1	1
	Type			Rotary			Scroll	
Connections	Suction line	Ø mm	16	16	16	16	16	16
	Liquid line	Ø mm	10	10	10	10	10	10
Electrical characteristics	Power supply	V/Ph/Hz			230/1/50			400/3+N/50
	Max. running current	A	7	9	11	11	15	18
	Max. starting current	A	37	43	62	62	79	86
Sound pressure ⁽²⁾		dB(A)	49	50	49	51	53	54
Weights	Transport weight	kg	81	83	83	87	90	92
	Operating weight	kg	82	84	84	88	91	93
MODEL		106	107	108	109	110	113	115
Cooling	Cooling capacity ⁽¹⁾	kW	15.8	19.1	21.2	26.4	30.9	36.6
	Absorbed power ⁽¹⁾	kW	5.1	6.2	7.1	8.6	9.2	11.5
Compressor	Quantity	n°	1	1	1	1	1	1
	Type				Scroll			
Connections	Suction line	Ø mm	18	22	22	28	28	28
	Liquid line	Ø mm	12	12	12	12	12	16
Electrical characteristics	Power supply	V/Ph/Hz			400/3+N/50			
	Max. running current	A	10	10	12	23	29	30
	Max. starting current	A	61	58	74	142	147	142
Sound pressure ⁽²⁾		dB(A)	54	55	56	59	61	61
Weights	Transport weight	kg	111	113	115	218	232	252
	Operating weight	kg	114	116	118	221	235	256

DIMENSIONS			101.5	101.8	102	102.5	103	104	105	106	107	108	109	110	113	115
L	STD	mm	870	870	870	870	870	870	1160	1160	1160	1160	1850	1850	1850	1850
W	STD	mm	320	320	320	320	320	320	500	500	500	500	1000	1000	1000	1000
H	STD	mm	1100	1100	1100	1100	1100	1100	1270	1270	1270	1270	1300	1300	1300	1300



ACDX Picture in the production line sizes 101.5 - 115

ACDX Features & options 218 - 460



Versions

- **STD:** cooling only.
- **XLN:** Super silenced cooling only (only sizes 218 – 452)

Features

- Self-supporting galvanized steel frame protected with additional protection achieved via polyester powder painting.
- Scroll compressors with oil sight glass, internal overheat protection and crankcase heater.
- Axial fans directly coupled to an electric motor with external rotor.
- Condenser in copper tubes and aluminium finned coil.
- R410A refrigerant.
- Electrical board includes: main switch with door safety interlock, fuses, thermal protection relays for compressors and thermocontacts for fans.
- Microprocessor control and regulation system.

ACDX Features & options 218 - 460



Factory fitted accessories

- **IM** Automatic circuit breakers
- **SL** Unit silencement
- **RFM** Cooling circuit shut-off valve on discharge line
- **RFL** Cooling circuit shut-off valve on liquid line
- **CT** Condensing control down to 0 °C
- **CC** Condensing control down to -20 °C
- **EC** EC Inverter fans
- **TX** Coil with pre-coated fins
- **RL** Liquid receiver
- **VS** Solenoid valve
- **BP** Hot gas by-pass valve
- **FF** Dryer filter and sight glass
- **SS** Soft start
- **IS** Modbus RTU protocol, RS485 serial interface
- **CP** Potential free contacts

Loose accessories

- **MN** High and low pressure gauges
- **CR** Remote control panel
- **RP** Coil protection metallic guards
- **AG** Rubber shock absorbers
- **AM** Spring shock absorbers

ACDX Features & options 218 - 460



MODEL		218	220	224	226	230	336	339	345	452	460
Cooling	Cooling capacity ⁽¹⁾	kW	50.6	58.6	66.9	77.2	88.4	102	117	134	156
	Absorbed power ⁽¹⁾	kW	17.4	19.7	22.5	25.8	29.5	34.2	39.2	45.6	53.2
Compressor	Quantity	n°		2			3		4		
	Type				Scroll						
	Refrigerant circuits	n°			1					2	
	Capacity steps	n°		2			3		4		
Connections	Suction line	Ø mm	1x35	1x35	1x35	1x35	1x35	1x42	1x42	1x42	2x35
	Liquid line	Ø mm	1x22	1x22	1x22	1x22	1x22	1x28	1x28	1x28	2x22
Electrical characteristics	Power supply	V/Ph/Hz			400/3/50						
	Max. running current	A	40	43	52	56	65	75	85	98	111
	Max. starting current	A	163	165	175	188	232	199	218	265	243
Sound pressure	STD version ⁽²⁾	dB(A)	61	61	64	64	65	66	68	68	69
	With SL accessory ⁽²⁾	dB(A)	59	59	62	62	63	64	66	66	67
	XLN version ⁽²⁾	dB(A)	57	57	60	60	61	62	63	63	64
Weights	Transport weight	kg	550	575	615	625	670	770	800	830	980
	Operating weight	kg	560	585	625	635	680	785	815	845	1090
											1120

1) Average evaporating temperature 5°C, ambient air temperature 35°C.

(2) Sound pressure level measured in free field conditions at 1m from the unit according to ISO 3744.

DIMENSIONS	218	220	224	226	230	336	339	345	452	460
L	STD	mm	2350	2350	2350	2350	2350	2350	2350	3550
	XLN	mm	2350	2350	2350	2350	2350	3550	3550	---
W	STD/XLN	mm	1100	1100	1100	1100	1100	1100	1100	1100
H	STD/XLN	mm	1920	1920	1920	1920	2220	2220	2220	2220



ACDX Picture in the production line sizes 218 - 460