

# AWECO *COMPRESSOR TECHNICAL OVERVIEW*



*COMMERCIAL  
REFRIGERATION*

*HEAT PUMP*

# AWECO Key compressor range - typical applications

Page	AWECO Series	Refrigerant	Control	Typical Application
2	QXER	R134a	On/Off	Heat pump - Sanitary water tank
4	QXD	R290	On/Off	Refrigeration, Heat pump
6	QXAz	R410A	Inverter	Heat pump - Ground water

## QXER Compressor Series

### GENERAL SPECIFICATION

- Application: Heat Pump - Sanitary Water / Dehumidifier / Refrigeration medium temperature
- Net supply: 230V/1Ph/50Hz
- Refrigerant: R134a
- Control: On/Off

### PERFORMANCE DATA

Model <sup>1)</sup>	Displacement [cm <sup>3</sup> ]	Cooling Capacity <sup>2)</sup> [W]	Power Input <sup>2)</sup> [W]	Heating Capacity <sup>2)</sup> [W]	COP Heating <sup>2)</sup>	Sound Power <sup>2)</sup> [dB(A)]	Max. Ref. Charge [g]
QXER-B109 C150	10.9	1240	420	1660	3,95	≤ 67	1000
QXER-B15 C030	15	1740	630	2370	3,76	on request	
QXER-C18 E030	18	2100	700	2800	4,00	≤ 68	1300
QXER-D253 F030	25.3	3000	1060	4060	3,83	≤ 70	1400
QXER-F36 F030	36	4360	1480	5840	3,95	≤ 71	2300

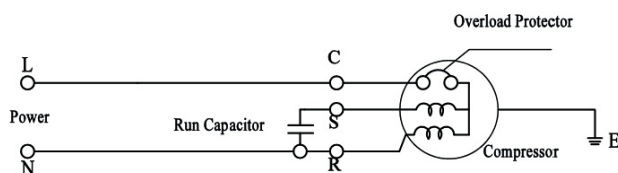
**Note:** 1) Extent of delivery: Compressor, terminal cover, nut and gasket for terminal cover and 3 pcs. grommet

2) Conditions: Evap. temp. 7,2°C; cond. temp. 54,4°C; liquid temp. 46,1°C; suction gas temp. 35°C

### ELECTRICAL DATA

Model	Locked Rot. Current LRA [A]	Absorbed Current <sup>1)</sup> [A]	Run Capacitor [μF/V]
QXER-B109 C150	14,1	1,9	25/400
QXER-B15 C030	on request		25/400
QXER-C18 E030	22,0	3,3	30/450
QXER-D253 F030	31,4	5,2	35/450
QXER-F36 F030	43,5	6,8	55/450

**Note:** 1) Conditions: Evap. temp. 7,2°C; cond. temp. 54,4°C; liquid temp. 46,1°C; suction gas temp. 35°C





## QXD Compressor Series

### GENERAL SPECIFICATION

- Application: Refrigeration medium temp./ Heat pump/ Dehumidifier
- Net supply: 230V/1Ph/50Hz
- Refrigerant: R290
- Control: On/Off

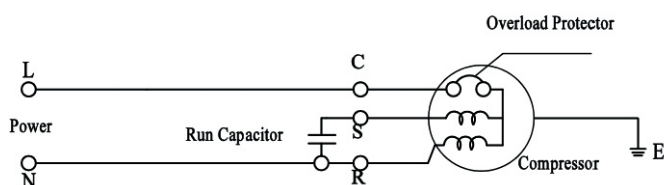
### PERFORMANCE DATA

Model <sup>1)</sup>	Displacement [cm <sup>3</sup> ]	Cooling Capacity <sup>2)</sup> [W]	Power Input <sup>2)</sup> [W]	Heating Capacity <sup>2)</sup> [W]	COP Cooling <sup>2)</sup>	Sound Power <sup>2)</sup> [dB(A)]	Max. Ref. Charge [g]
QXD-A040 W130A	4,0	545	230	775	2,37	≤ 64	180
QXD-A058 W130A	5,8	780	308	1088	2,53	≤ 64	180
QXD-G058 P230	5,8	770	315	1085	2,44	on request	
QXDR-A058 L130	5,8	820	260	1080	3,15	≤ 64	320
QXDR-A088 L130	8,8	1290	430	1720	3,00	on request	
QXDR-A088 T130	8,8	1320	425	1745	3,11	≤ 64	320
QXD-A098 L130	9,8	1460	505	1965	2,89	on request	
QXD-A121 L130A	12,1	1780	610	2390	2,92	≤ 64	320
QXD-C173 A030	17,3	2550	795	3345	3,21	≤ 67	800
QXD-C184 A030A	18,4	2710	820	3530	3,30	≤ 67	800
QXD-C218 A030A	21,8	3200	970	4170	3,30	≤ 67	800
QXD-C223 A030	22,3	3350	980	4330	3,42	on request	

**Note:** 1) Extent of delivery: Compressor, terminal cover, nut and gasket for terminal cover and 3 pcs. grommet  
 2) Conditions: Evap. temp. 7,2°C; cond. temp. 54,4°C; liquid temp. 46,1°C; suction gas temp. 35°C

### ELECTRICAL DATA

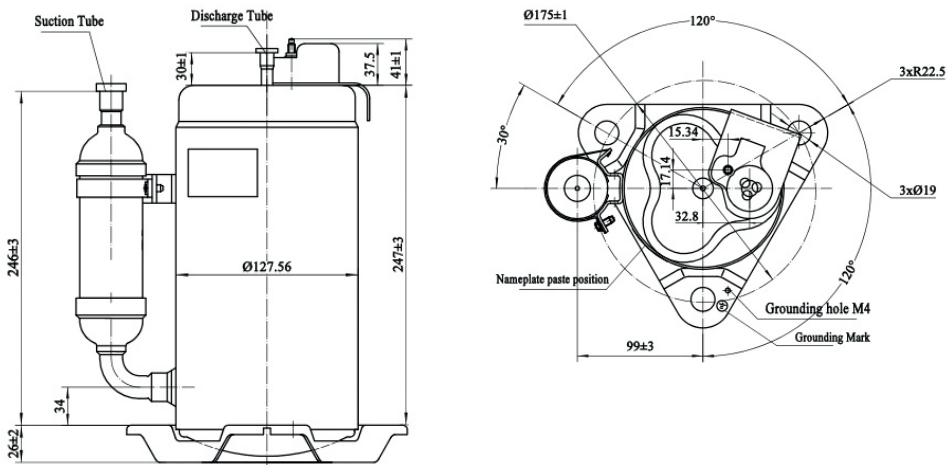
Model	Locked Rot. Current LRA [A]	Absorbed Current <sup>1)</sup> [A]	Run Capacitor [μF/V]
QXD-A040 W130A	5,4	1,2	8/450
QXD-A058 W130A	5,4	1,4	15/450
QXD-G058 P230	7,0	1,6	6,5/450
QXDR-A058 L130	8,0	1,2	15/450
QXDR-A088 L130	13,0	1,9	20/450
QXDR-A088 T130	13,0	1,9	20/450
QXD-A098 L130	13,0	2,4	20/450
QXD-A121 L130A	13,0	2,9	20/450
QXD-C173 A030	22,0	3,6	25/450
QXD-C184 A030A	22,0	3,8	25/450
QXD-C218 A030A	24,0	4,9	35/450
QXD-C223 A030	23,0	4,7	35/450



## DIMENSIONS

Model	Total Height [mm]	Comp. ød [mm]	Bolt circle installation plate ød [mm]	Suction Connection [mm]	Discharge Connection [mm]	Weight [kg]
QXD-A040 W130A	216	107	150	9,7	6,2	5,8
QXD-A058 W130A	216	107	150	9,7	6,2	5,8
QXD-G058 P230	228	92	120	9,7	6,2	5,0
QXDR-A058 L130	254	107	150	9,7	6,2	7,9
QXDR-A088 L130	254	107	150	9,7	6,2	7,5
QXDR-A088 T130	270	107	150	9,7	6,2	8,9
QXD-A098 L130	259	107	165	9,7	6,2	8,0
QXD-A121 L130A	259	107	150	9,7	6,2	8,0
QXD-C173 A030	314	128	175	12,2	9,7	13,8
QXD-C184 A030A	314	128	175	12,2	9,7	13,8
QXD-C218 A030A	314	128	175	12,2	9,7	14,9
QXD-C223 A030	309	128	175	12,2	9,7	14,6

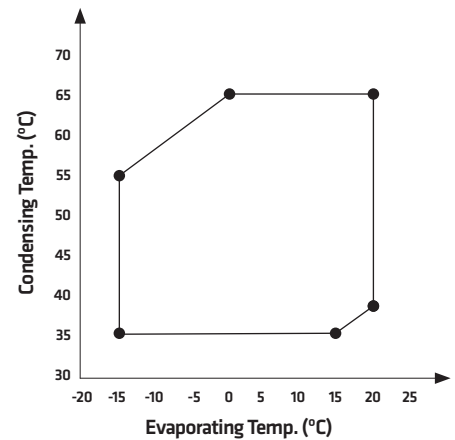
### Drawing: QXD-C184A030A



## OPERATING ENVELOPE

Model	Evap. temp. range [°C]	Cond. temp. range [°C]	Overload protector action temp. [°C]	Application
QXD-A040 W130A	-15 ... +15	27 ... 67	105	Air Conditioner
QXD-A058 W130A	-15 ... +15	27 ... 67	105	Air Conditioner
QXD-G058 P230	-15 ... +15	27 ... 68	115	Dehumidifier
QXDR-A058 L130	-15 ... +25	28 ... 70	130	Heat Pump
QXDR-A088 L130	-15 ... +15	27 ... 70	115	Heat Pump
QXDR-A088 T130	-15 ... +25	28 ... 70	135	Heat Pump
QXD-A098 L130	-15 ... +15	27 ... 75	115	Dehumidifier
QXD-A121 L130A	-15 ... +15	27 ... 67	125	Air Conditioner
QXD-C173 A030	-15 ... +20	35 ... 65	115	Refrigeration MT
QXD-C184 A030A	-15 ... +20	35 ... 65	115	Refrigeration MT
QXD-C218 A030A	-15 ... +15	27 ... 68	125	Air Conditioner
QXD-C223 A030	-15 ... +15	27 ... 75	115	Heat Pump

### Operating envelope QXD-C184A030A



## QXAz Compressor Series

### GENERAL SPECIFICATION

- Application: Heat Pump – Ground Water, Air Conditioning
- Net supply: 1-Phase and 3-phase net supply
- Refrigerant: R410A
- Control: Inverter

### PERFORMANCE DATA

Model <sup>1)</sup>	Displacement [cm <sup>3</sup> ]	Cooling Capacity <sup>2)</sup> [W]	Power Input <sup>2)</sup> [W]	Heating Capacity <sup>2)</sup> [W]	COP Heating <sup>2)</sup>	Sound Power <sup>2)</sup> [dB(A)]	Max. Ref. Charge [g]
<b>Rare Earth</b>							
QXA-A096 zE130	9,6	2930	1015	3945	3,89	≤ 73	1000
QXA-A102 zE130B	10,2	3100	1035	4135	4,00	≤ 72	1000
QXAS-D23 zX090	23,1	7150	2450	9600	3,92	≤ 78	2300
QXAS-D32 zX090B	32,1	10060	3360	13420	3,99	≤ 79	2300
QXAS-F428 zX050	42,8	13500	4580	18080	3,95	≤ 80	4000
<b>Ferrit Versions</b>							
QXA-B096 zE190A	9,6	2850	950	3800	4,00	≤ 70	1200
QXA-B139 zE130	13,9	4200	1400	5600	4,00	≤ 75	1400
QXA-B141 zF030	14,1	4225	1440	5665	3,93	≤ 75	1400

**Note:** 1) Extent of delivery: Compressor, terminal cover, nut and gasket for terminal cover and 3 pcs. grommet

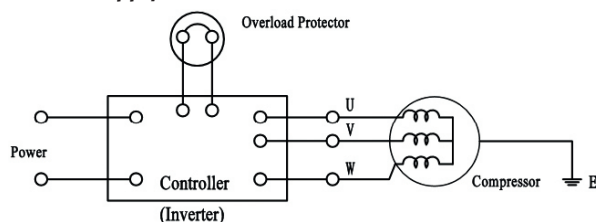
2) Conditions: Evap. temp. 7,2°C; cond. temp. 54,4°C; liquid temp. 46,1°C; suction gas temp. 35°C  
3600rpm (60Hz)

### ELECTRICAL DATA

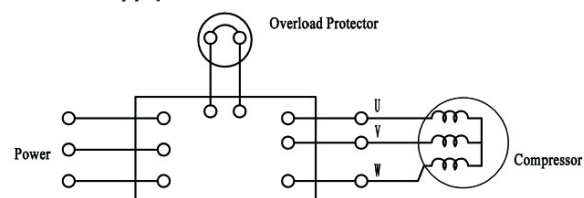
Model	Absorbed Current <sup>1)</sup> [A]	Power supply	Motor Technology
<b>Rare Earth</b>			
QXA-A096 zE130	4,8	230V/1Ph/50Hz	Permanent Magnet Synchronous Motor
QXA-A102 zE130B	4,7	230V/1Ph/50Hz	Permanent Magnet Synchronous Motor
QXAS-D23 zX090	11,5	230V/1Ph/60Hz	Permanent Magnet Synchronous Motor
QXAS-D32 zX090B	6,7	380V/3Ph/50Hz	Permanent Magnet Synchronous Motor
QXAS-F428 zX050	21,0	230V/1Ph/50Hz	Permanent Magnet Synchronous Motor
<b>Ferrit Versions</b>			
QXA-B096 zE190A	4,9	230V/1Ph/50Hz	Permanent Magnet Synchronous Motor
QXA-B139 zE130	6,5	230V/1Ph/50Hz	Permanent Magnet Synchronous Motor
QXA-B141 zF030	7,2	230V/1Ph/50Hz	Permanent Magnet Synchronous Motor

**Note:** 1) Conditions: Evap. temp. 7,2°C; cond. temp. 54,4°C; liquid temp. 46,1°C; suction gas temp. 35°C  
3600rpm (60Hz)

#### 1 Phase Supply:



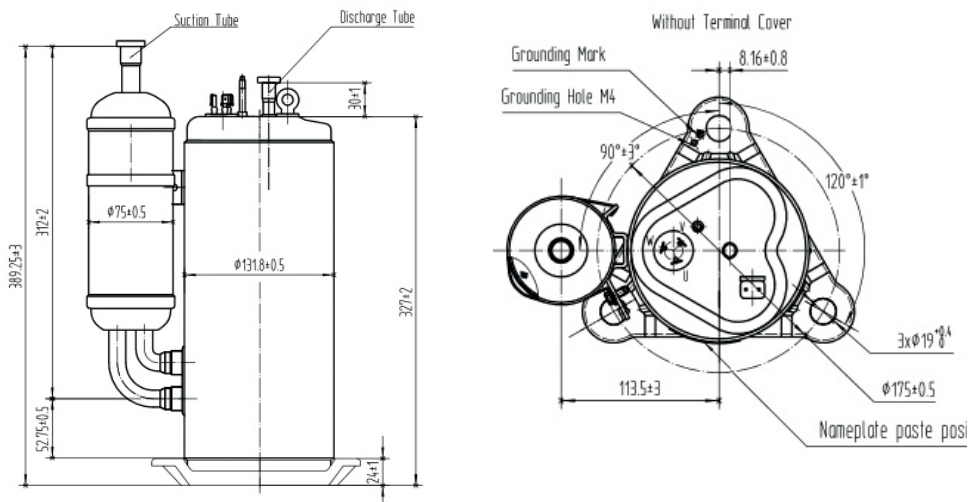
#### 3 Phase Supply:



## DIMENSIONS

Model	Total Height [mm]	Comp. ød [mm]	Bolt circle installation plate ød [mm]	Suction Connection [mm]	Discharge Connection [mm]	Weight [kg]
<b>Rare Earth</b>						
QXA-A096 zE130	275	107	150	12,9	8,2	6,5
QXA-A102 zE130B	275	107	150	12,9	8,2	7,0
QXAS-D23 zX090	389	132	175	16,2	9,7	15,7
QXAS-D32 zX090B	389	132	175	16,2	9,7	17,0
QXAS-F428 zX050	411	149	175	16,2	9,7	21,6
<b>Ferrit Versions</b>						
QXA-B096 zE190A	276	118	150	12,2	6,2	9,5
QXA-B139 zE130	262	118	175	12,9	9,7	9,0
QXA-B141 zF030	328	118	175	12,2	9,7	10,0

### Drawing: QXAS-D23zX090

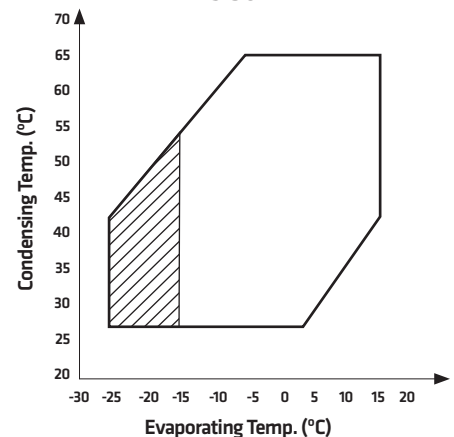


## DIMENSIONS

Model	Evap. temp. range <sup>1)</sup> [°C]	Cond. temp. range <sup>1)</sup> [°C]	Overload protector action temp. [°C]	Frequency range [Hz]
<b>Rare Earth</b>				
QXA-A096 zE130	-15 ... +15	27 ... 65	-	15 ... 120
QXA-A102 zE130B	-15 ... +15	27 ... 65	-	15 ... 120
QXAS-D23 zX090	-15 ... +15	27 ... 65	115	15 ... 120
QXAS-D32 zX090B	-15 ... +15	27 ... 65	115	15 ... 120
QXAS-F428 zX050	-15 ... +15	27 ... 65	-	15 ... 120
<b>Ferrit Versions</b>				
QXA-B096 zE190A	-15 ... +15 2)	29 ... 64 2)	115	15 ... 120
QXA-B139 zE130	-15 ... +15	27 ... 65	115	15 ... 120
QXA-B141 zF030	-15 ... +15 2)	29 ... 64 2)	115	15 ... 120

**Note:** 1) Based on 45 ... 90Hz speed range and continuous operation  
 2) Based on 30 ... 80Hz speed range and continuous operation

### Operating envelope QXAS-D23 zX 090 45-90 Hz



= Area of no continuous operation



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Silhouettes of a woman and a child with their arms raised in the air, positioned on the left side of the page.

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