

ENGINEERING DATA SHEET

CCN: 47793773001

Rev.: D

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Sheet: 1 of 1

Date: #####

Quiet Enclosed

60/50Hz

Tank Mount Model	2475QD5	2475QD7.5	2545QE10	7100QE15
Base Mount Model	2475QX5	2475QX7.5	2545QX10	7100QX15

GENERAL PERFORMANCE DATA

Maximum Operating Ambient Temperature	°F (°C)	100 (38)	100 (38)	100 (38)	100 (38)
Minimum Operating Ambient Temperature	°F (°C)	32 (0)	32 (0)	32 (0)	32 (0)
Nominal Power - Main Motor	HP (kW)	5 (4)	7.5 (6)	10 (7)	15 (11)
Main Motor Efficiency		EISA COMPLIANT			
Motor Speed	RPM	1800	3600	1800	1800
Motor Pulley PD (60Hz)	Inches	8.0	5.7	10.4	11.4
Motor Pulley PD (50Hz)	Inches	9.0	7.0	12.4	13.6
Capacity FAD	⁽¹⁾ CFM (m ³ /min)	16.80 (.47)	24.00 (.67)	35.00 (.98)	50.00 (1.40)
Package Input Power Single phase		8.84	9.44	N/A	N/A
Package Input Power Three phase	⁽³⁾ kW	3.74	5.30	7.42	10.64

SOUND LEVEL

Noise Level Standard Package	Sound Pressure - dB(A)	66	68	65	67
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COOLING DATA (@ Maximum Ambient Temperature & Maximum Discharge Pressure)

Heat Removal (Discharge Air)	kW (1000 Btu/hr)	4.0 (14)	5.8 (20)	8.4 (29)	12.2 (42)
Fan Air Flow	CFM (m ³ /hr)	1000 (1699)	1000 (1699)	2000 (3398)	2000 (3398)
Fan Motor Nominal Power	kW	0.24	0.24	0.98	0.98
Cooling Air Temperature Rise	°F (°C)	13 (7)	20 (11)	14 (8)	21 (11)
Air-cooled Aftercooler CTD	°F (°C)	20 (11)	22 (12)	7 (4)	17 (10)

PUMP DATA

Low Pressure Bore	inch	4.00	4.00	5.00	5.50
High Pressure Bore	inch	2.50	2.50	2.75	3.00
Stroke	inch	2.75	2.75	3.50	4.00
Maximum Target Operating Pressure	⁽²⁾ psig (barg)	175.0 (145)	175.0 (145)	175.0 (125)	175.0 (125)
Sheave OD	inch	13.8	13.8	18.0	18.0
Sheave PD	inch	13.5	13.5	17.6	17.5
Belt Type	--	A	A	B	B
Belt Quantity	--	1	1	1	2
Min/Max	RPM	575/1600	575/1600	612/1050	750/1100
Lubrication Types	⁽⁷⁾⁽⁸⁾⁽⁹⁾ --	XL300*, All-Season T30 Select**, XL740Ht***			
Sump Capacity	qt(liter)	1.30 (1.23)	1.30 (1.23)	2.3 (2.2)	2.3 (2.2)

PIPING CONNECTIONS**PACKAGE**

Air Discharge	Inches NPT	0.5" (FEMALE)	0.5" (FEMALE)	0.75" (FEMALE)	0.75" (FEMALE)
Condensate Drain	Inches NPT	.25" (FEMALE)	.25" (FEMALE)	.25" (FEMALE)	.25" (FEMALE)

Pump

Inlet Size	Inches NPT	1.0" (FEMALE)	1.0" (FEMALE)	1.25" (FEMALE)	1.5" (FEMALE)
Discharge Size	Inches NPT	0.5" (FEMALE)	0.5" (FEMALE)	0.75" (FEMALE)	1.0" (FEMALE)

DIMENSIONS AND WEIGHT

Tank Mount - Length X Width X Height	inches	70.5 X 33.3 X 65.2	70.5 X 33.3 X 65.2	75.6 X 34.3 X 74.0	75.6 X 34.3 X 74.0
Tank Mounted - Net Weight	lbs. (kg)	1210 (550)	1215 (552)	1629 (740)	1867 (849)
Base Mount - Length X Width X Height	inches	61.8 X 33.3 X 45.3	61.8 X 33.3 X 45.3	68.7 X 34.3 X 50.3	68.7 X 34.3 X 50.3
Base Mounted - Net Weight	lbs. (kg)	1132 (515)	1137 (517)	1345 (611)	1583 (720)
GA Drawing Number	Base Mounted	47788677001	47788677001	47788676001	47788676001
	Receiver Mounted	47788678001	47788678001	47788679001	47788679001

TANK DETAILS

Tank Size	⁽¹⁰⁾ Gal	80	80	120	120
Tank Configuration	⁽¹⁰⁾ --	Horizontal	Horizontal	Horizontal	Horizontal
Pressure Rating	⁽¹⁰⁾ psig (barg)	200.0 (13.8)	200.0 (13.8)	200.0 (13.8)	200.0 (13.8)
Codes	⁽¹⁰⁾ --	ASME Sec VIII & CRN			

ELECTRICAL DATA

Motor Protection	⁽⁵⁾	ODP or TEFC	ODP or TEFC	ODP or TEFC	ODP or TEFC
Full Load Package Current - Air Cooled					
	Amps @ 200V- 1Ph- 60Hz	40	N/A	N/A	N/A
	Amps @ 230V- 1Ph- 60Hz	37	52	N/A	N/A
	Amps @ 200V- 3Ph- 60Hz	24	34	46	66
	Amps @ 230V- 3Ph- 60Hz	21	29	40	58
	Amps @ 460V- 3Ph- 60Hz	11	15	20	29
	Amps @ 575V- 3Ph- 60Hz	10	13	16	23
	Amps @ 200V- 3Ph- 50Hz	24	34	46	67
	Amps @ 400V- 3Ph- 50Hz	12	17	23	33

Electrical Installation

Recommended Supply Cable Size	⁽⁶⁾⁽¹¹⁾				
	awg @ 200V-1PH	8	N/A	N/A	N/A
	awg @ 230V-1Ph	8	6	N/A	N/A
	awg @ 200V-3PH	12	10	8	4
	awg @ 230V-3Ph	12	10	8	6
	awg @ 460V	14	14	12	10
	awg @ 575V	14	14	14	10

Notes:

- FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C
- Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure
- Measured at rated capacity and rated pressure
- Measured in free field conditions per ISO 2151 using Hemispherical Method; with + 3 dB(A) tolerance
- The amp draws and wire size provided are off general NEC guidelines. For proper breaker and fuses please consult a licensed electrician or electrical contractor.
- 60Hz ($\pm 0.5\%$) motor voltage tolerance: (208) $\pm 10\%$; (220) $\pm 10\%$; (230) $\pm 10\%$; (380)-6/+10%; (440) $\pm 10\%$; (460) $\pm 10\%$; (575) -6/+10%
- * Adjust viscosity to suit ambient conditions, XL300 should not be used in ambients below 400F. Use premium quality, non-detergent, single-viscosity petroleum oils with R & O additives.
- ** Required for duty cycles above 70% load. Check lubricant compatibility sheet before using.
- *** Required for ambients in excess of 100°F. Check lubricant compatibility sheet before using.
- For Tank Mounted Models Only
- Copper wire, 75°C (167°F) maximum temperature rating, 30°C (86°F) ambient temperature

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