

Model Name R225NE

GENERAL PERFORMANCE DATA

Package Discharge Pressure	barg (psig)	7 (100)	7.5 (110)	8 (115)	8.5 (125)	9.5 (135)	10 (145)
Capacity @ Max Speed FAD ⁽¹⁾	m ³ /min (cfm)	46.01 (1625)	44.74 (1580)	43.61 (1540)	41.80 (1476)	40.69 (1437)	40.35 (1425)
Capacity @ Min Speed FAD ⁽¹⁾	m ³ /min (cfm)	18.73 (661)	18.34 (648)	18.23 (644)	18.10 (639)	18.27 (645)	18.84 (665)
Turndown Percentage	%	59%	59%	58%	57%	55%	53%
Maximum Target Operating Pressure ⁽²⁾	barg (psig)				10 (145)		
Maximum Ambient Operating Temperature	°C (°F)				46 (115)		
Minimum Ambient Operating Temperature	°C (°F)				2 (35)		
Maximum System Temperature Setting	°C (°F)				109 (228)		
Nominal Power - Main Motor	kW (HP)				224 (300)		
Main Drive Efficiency ⁽³⁾	Percent				97.7%		
Main Motor Efficiency ⁽³⁾	Percent				95.4%		
Package Input Power - Air Cooled ⁽⁴⁾	kW	272.7	281.5	281.5	281.5	281.5	281.5
Package Input Power - Water Cooled ⁽⁴⁾	kW	258.1	266.9	266.9	266.9	266.9	266.9
Specific Power - Air Cooled ⁽⁴⁾⁽⁵⁾	kW/m ³ /min (kW/100cfm)	5.93 (16.78)	6.29 (17.82)	6.45 (18.28)	6.73 (19.07)	6.92 (19.59)	6.98 (19.75)
Specific Power - Water Cooled ⁽⁴⁾⁽⁵⁾	kW/m ³ /min (kW/100cfm)	5.61 (15.88)	5.97 (16.89)	6.12 (17.33)	6.39 (18.08)	6.56 (18.57)	6.61 (18.73)

SOUND LEVEL ⁽⁶⁾

Standard Package - Air Cooled	dB(A)	80
Standard Package - Water Cooled	dB(A)	80

Cooling Data (115°F/46°C Maximum Ambient Temperature)

Heat Removal Oil Cooler (@ 100°F / 38°C)	kW (1000 Btu/hr)	209 (714)	209 (714)	209 (714)	209 (714)	209 (714)	209 (714)
Heat Removal Oil and Aftercooler (@ 100oF / 38oC)	kW (1000 Btu/hr)	265 (904)	265 (904)	265 (904)	265 (904)	265 (904)	265 (904)
Maximum Added Static Pressure	Pa (in H ₂ O)	60 (0.25)					

Air-cooled

Fan Air Flow	m ³ /min (cfm)	Maximum: 680 (24,000)					
Cooling Air Temperature Rise	°C (°F)	20 (36)	20 (36)	20 (36)	20 (36)	20 (36)	20 (36)
Aftercooler CTD ⁽⁷⁾	°C (°F)	8.3 (15.0)	8.3 (15.0)	8.3 (15.0)	8.3 (15.0)	8.3 (15.0)	8.3 (15.0)

Water-cooled - Standard Duty

Fan Air Flow	m ³ /min (cfm)	311 (11,000)					
Aftercooler CTD ⁽⁷⁾	°C (°F)	8.3 (15.0)	8.3 (15.0)	8.3 (15.0)	8.3 (15.0)	8.3 (15.0)	8.3 (15.0)
Cooling Water Flow							
@ 10°C (50°F)	l/min (gal/min)	114 (25)	114 (25)	114 (25)	114 (25)	114 (25)	114 (25)
@ 21°C (70°F)	l/min (gal/min)	158 (35)	158 (35)	158 (35)	158 (35)	158 (35)	158 (35)
@ 32°C (90°F)	l/min (gal/min)	246 (54)	246 (54)	246 (54)	246 (54)	246 (54)	246 (54)
@ 46°C (115°F)	l/min (gal/min)	350 (77)	350 (77)	350 (77)	350 (77)	350 (77)	350 (77)
Cooling Water Temperature Rise	°C (°F)	13 (23)	13 (23)	13 (23)	13 (23)	13 (23)	13 (23)
Cooling Air Temperature Rise	°C (°F)	N/A	N/A	N/A	N/A	N/A	N/A

Water-cooled - Harsh Duty

Fan Air Flow	m ³ /min (cfm)	N/A					
Aftercooler CTD ⁽⁸⁾	°C (°F)	N/A	N/A	N/A	N/A	N/A	N/A
Cooling Water Flow							
@ 10°C (50°F)	l/min (gal/min)	N/A	N/A	N/A	N/A	N/A	N/A
@ 21°C (70°F)	l/min (gal/min)	N/A	N/A	N/A	N/A	N/A	N/A
@ 32°C (90°F)	l/min (gal/min)	N/A	N/A	N/A	N/A	N/A	N/A
@ 46°C (115°F)	l/min (gal/min)	N/A	N/A	N/A	N/A	N/A	N/A
Cooling Water Temperature Rise @ 30°C	°C (°F)	N/A	N/A	N/A	N/A	N/A	N/A
Cooling Air Temperature Rise	°C (°F)	N/A	N/A	N/A	N/A	N/A	N/A

R225ne

60Hz

CCN: 23570773
 Rev.: E
 ECN: 1156167
 Sheet: 2 of 2
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CONSTRUCTION, FOUNDATION, AND MOUNTING DATA

PIPING CONNECTIONS

Air Discharge	Inches BSPT/NPT ⁽⁹⁾	3.00
Package Automatic Condensate Drain	Inches NPT	0.50
Coolant Drain (if drain tube removed)	Inches BSPT	0.50
Diameter of Power Inlet	Inches	3.0"
Water Inlet and Outlet Connections	Inches BSPT/NPT ⁽⁹⁾	2.00

COOLANT LUBRICATION DATA

Total Coolant Capacity - Air Cooled	litres (US gal)	152 (40)
Total Coolant Capacity - Water Cooled - Std	litres (US gal)	152 (40)
Total Coolant Capacity - Water Cooled - Harsh	litres (US gal)	N/A

DIMENSIONS & WEIGHT

		Base Mounted
Length, Width, Height	mm (inches)	4000 / 1930 / 2146 (157.5 / 76 / 84.5)
Net Weight - Air Cooled	kg (lb.)	5933 (13080)
Net Weight - Water Cooled	kg (lb.)	5933 (13080)
GA Drawing Number - Air Cooled		23442502
GA Drawing Number - Water Cooled		23442510

ELECTRICAL DATA

		380V, 3Φ	460V, 3Φ	575V, 3Φ
Motor Protection			IP23 (ODP)	
Full Load Package Current - Air Cooled ⁽¹⁰⁾	Amps	470	389	311
Full Load Package Current - Water Cooled ⁽¹⁰⁾	Amps	428	354	283

Electrical Installation

Recommended Supply Cable Size ⁽¹¹⁾	mm ² /Cu (AWG)	TBD	TBD	TBD
Recommended Fuse Rating ⁽¹¹⁾⁽¹²⁾	Amps	TBD	TBD	TBD

Notes :

- (1) FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C
- (2) Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure
- (3) At maximum speed and flow for the given package discharge pressure
- (4) Measured at rated capacity and rated pressure
- (5) Specific power guaranteed in accordance with ISO 1217 : 2009 Annex C
- (6) Measured in free field conditions per ISO 2151 using Hemispherical Method, with + 3 dB(A) tolerance.
- (7) 40% Relative Humidity Inlet Air and maximum speed (For alternate conditions contact IR)
- (8) Ambient temperature equivalent to cooling water inlet temperature
- (9) BSPT or NPT, depending on regional standard
- (10) Maximum current could exceed this value by up to 10% assuming fouled filters and elements
- (11) Always apply local electrical codes for sizing cables and fusing.
- (12) Fast Acting Class-J, T or Semiconductor type fuse required. Apply local electrical codes for fuse sizing