



ENGINEERING DATA SHEET

R90n
60 Hz

CCN: 23555816
Rev.: L
ECN: 83745
Sheet: 2 of 2
Date: 19-Jun-2015

CONSTRUCTION, FOUNDATION, AND MOUNTING DATA

PIPING CONNECTIONS

Air Discharge	Inches BSPT/NPT ⁽⁹⁾	2.50
Package Automatic Condensate Drain	Inches BSPT/NPT ⁽⁹⁾	0.38
Coolant Drain Plug	Inches BSPT/NPT ⁽⁹⁾	0.75
Diameter of Power Inlet	mm / inch	Up to 4.0" (removable plate)
Water Inlet and Outlet Connections	Inches BSPT/NPT ⁽⁹⁾	1.50

COOLANT LUBRICATION DATA

Total Coolant Capacity - Air Cooled ⁽¹³⁾	litres (US gal)	80 (21)
Total Coolant Capacity - Water Cooled - Std ⁽¹³⁾	litres (US gal)	71 (19)
Total Coolant Capacity - Water Cooled - Harsh ⁽¹³⁾	litres (US gal)	TBD

DIMENSIONS & WEIGHT

		Base Mounted
Length, Width, Height	mm (inches)	2703 / 1466 / 2032 (106.4 / 57.7 / 80)
Net Weight - Air Cooled	kg (lb.)	2060 (4540)
Net Weight - Water Cooled	kg (lb.)	1850 (4080)
GA Drawing Number - Air Cooled		23539836
GA Drawing Number - Water Cooled		23539844

ELECTRICAL DATA ⁽¹⁴⁾

		380V, 3Φ	440V, 3Φ	460V, 3Φ	575V, 3Φ
Motor Protection				IP23 (ODP)	
Full Load Package Current - Air Cooled ⁽¹⁰⁾	Amps	211	182	174	139
Full Load Package Current - Water Cooled ⁽¹⁰⁾	Amps	203	174	166	131
Package Power Factor		0.90	0.90	0.90	0.90

Electrical Installation

Recommended Supply Cable Size ⁽¹¹⁾	mm ² /Cu (AWG or kcmil)	185(300)	150(250)	150(250)	95(3/0)
Maximum Recommended Fuse Rating ⁽¹¹⁾⁽¹²⁾	Amps	400	400	400	250

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, ducted inlet and outlet, 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 includes 10% additional current due to 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
- (13) Coolant volumes listed are approximate. See operator manual for coolant fill procedure.
- (14) Voltage Range: 380-480V ± 6%, 575V +/-6%
- (15) Cable size based on 90°C copper cables
- (16) See detailed scope document 23883374

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