





# ENGINEERING DATA SHEET

**R110n**  
50 Hz

**CCN:** 23555824  
**Rev.:** L  
**ECN:** 83745  
**Sheet:** 2 of 2  
**Date:** 18-Jun-2015

## CONSTRUCTION, FOUNDATION, AND MOUNTING DATA

### PIPING CONNECTIONS

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

### COOLANT LUBRICATION DATA

Total Coolant Capacity - Air Cooled <sup>(13)</sup>	litres (US gal)	80 (21)
Total Coolant Capacity - Water Cooled - Std <sup>(13)</sup>	litres (US gal)	71 (19)
Total Coolant Capacity - Water Cooled - Harsh <sup>(13)</sup>	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 <sup>(14)</sup>

		380V, 3Φ	400V, 3Φ	415V, 3Φ	440V, 3Φ
Motor Protection				IP23 (ODP)	
Full Load Package Current - Air Cooled <sup>(10)</sup>	Amps	247	235	226	205
Full Load Package Current - Water Cooled <sup>(10)</sup>	Amps	240	227	219	198
Package Power Factor		0.90	0.90	0.90	0.90

### Electrical Installation

		380V(400)	400V(400)	415V(400)	440V(300)
Recommended Supply Cable Size <sup>(11)</sup>	mm <sup>2</sup> /Cu (AWG or kcmil)	240(400)	240(400)	240(400)	185(300)
Maximum Recommended Fuse Rating <sup>(11)(12)</sup>	Amps	400	400	400	350

### 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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