



EQUINIX

ARUP

Equipment Data Sheet

Fuel Oil Pumps

FR120-ARP-GT-XX-SP-M-FUEL-8002

Job Title: **Equinix FR12.1 Frankfurt**

Job Number: **285668-0**

Made by: **BP**

Purpose of Issue: **D2**

Checked by: **DD**

Date: **03 February 2023**

Revision: **P02**

General Data

Unit Reference	1FP_M1R1_1 1FP_M1R1_2
Phase	Phase1
Model Reference	RD2A-B-2
Quantity	2
Location	Fuel Pump Room 1, Fuel Pump Room 2
System	Fuel - Supply

Performance Data

	Required	Offered
Diesel Oil Type	Heizöl EL	
Flow Rate	kg/s 6,05	
Total Pump Pressure	bar (g) 3.1	
Minimum Flow Rate	kg/s STA	
Pressure @ Min Flow	kPa STA	
Pump Speed	rpm 3000	
Max Operating Temperature	°C 40	
Max Outlet Pressure	bar (g) 10	

Construction Data

Pump Type	Self Priming Centrifugal
Drive Type	VFD
Casing Material	Ductile Iron
Rotor Material	Copper Alloy
Shaft Material	Steel
Shaft Seal Type	Flurocarbo Elastomers, Carbon rotating face
Connection Type	Flange

Electrical Data

	Required	Offered
Electrical Supply	V/Ø/Hz 400/3/50	
Drive Efficiency	% STA	
Motor Efficiency	% STA	
Absorbed Power	kW 5.4	
Motor Rating	kW 7.5	
Motor Speed	rpm Variable	
Starting Current	A 69.5	
Full Load Running Current	A 8.2	
Power Source	3-phase /400 V, 50 Hz	

Dimensional Data

	Required	Offered
Suction Connection (Ø)	mm 80	
Discharge Connection (Ø)	mm 50	
Overall Length	mm 505	
Overall Width	mm 420	
Overall Height	mm 420	
Operating Weight	kg STA	
Mounting Method	STA	



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Accessories

	Required	Offered
Anti Vibration Mountings	<input checked="" type="checkbox"/>	<input type="checkbox"/>
High Efficiency Motors	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Motor Speed / Torque Curve	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Variable Frequency Drive	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BMS Outputs

	Required	Offered
Common Alarm - Volt Free Contact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Run Status - VFC	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Available	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BMS Inputs

	Required	Offered
Enable/Disable - Volt Free Contact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Set points	<input type="checkbox"/>	<input type="checkbox"/>

Testing

	Required	Offered
Performance Type Tests	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Works Performance Tests	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Site OEM Performance Tests	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Samples

	Required	Offered
Type Samples	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

Manufacturer

Manufacturer	Gorman-Rupp Pumps
Contact Name	Matthew Zwaneveld
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Fax Number	-
E-mail Address	matthew.zwaneveld@gormanrupp.com
Internet Address	GRpumps.eu

Additional Information

- Pumps to be provided with VSD for constant speed control and commissioning.
- Pumps to overcome project-specific pressure requirements on the system's suction side (final figures to be determined by contractor)
- Pump shall come with vent pipe connection. Vent pipe to be connected to fuel return line to bulk tanks (non-pressurized line) or to be vented to the exterior
- Type test data shall be provided to demonstrate that the equipment performs to the required standards.
- Submit pump curves to demonstrate operating point and part load performance.
- Pumps shall be capable if operating in -10°C entering fuel temperature
- Fuel distribution system controls to be fully redundant
PLC type with no single point of failure (design of Controls by BMS Contractor)
- The contractor is responsible to confirm the final pressure drop of the pipework system installed, taking into account changes made on site to the Detailed Design and reflect this increased pressure drop in the final pump selection.

Comments

AVM - antivibration mount

STA - supplier to advice