

Fan Data Sheet

Customer	Xero Energy	Branch	Test
Project	Random	Unit Name	1st
Design Parameter	40625CFM @ 980Pa	Date	20/06/2023

Fan Model **ARN 800**

Volume Flow 15,900 ft³/min

Total Pressure 392 Pa

Static Pressure 308 Pa

Velocity Pressure 84 Pa

Total Efficiency (Fan, Motor, VFD)

Fan Static Efficiency Pa

Fan Total Efficiency 91.67%

Power 3.45 kW

Speed 1215 rpm

Altitude of Installation 0 m

Temperature °C

Humidity 50% RH

Air Density 1.2 kg/m³

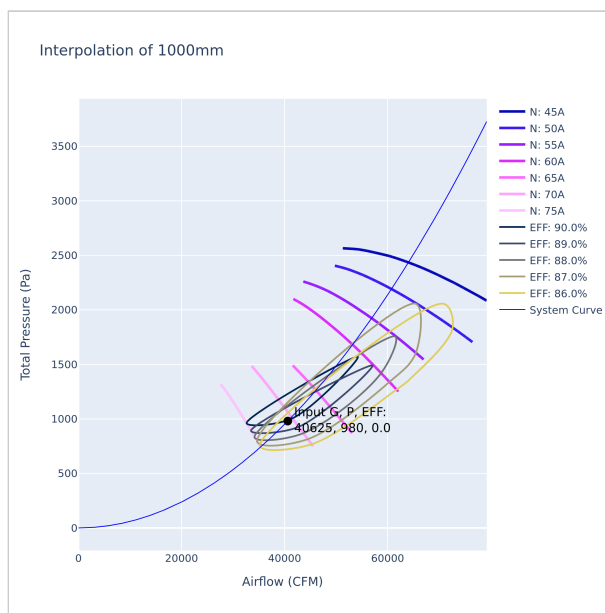
Inlet Free

Specific Fan Power kw/m³s

Outlet Duct

Sound Power Level 84 dB(A)

Sound Pressure Level 84 dB(A)



Some text....

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Motor Data Sheet

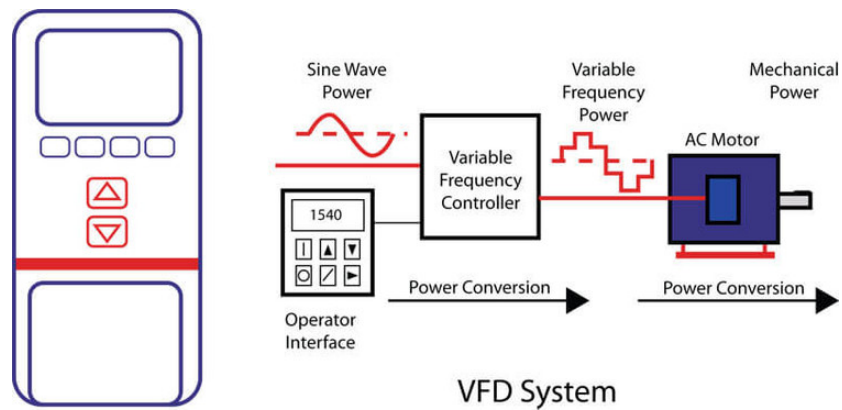
Motor Model	Nidec 7.5kW - 4P
Product Code	M2BAX160MLB5
Rated Power	7.5 kW
Nominal Torque	49 Nm
Rated Speed	1458 rpm
Rated Current	7.6 A
Supply Voltage	3X415
Rated Voltage	415 V
Supply Frequency	50 Hz
Insulation	F
Temperature rise	B
Enclosure	IP55
Efficiency Class	IE3
Motor Efficiency	92.1%
VFD Efficiency	97%
Mounting arrangement	B5
Start-up	Direct Starting
Windings type	1 Speed(1 Winding)
Power Input	12.9 kW



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3D VFD Model



Notes....



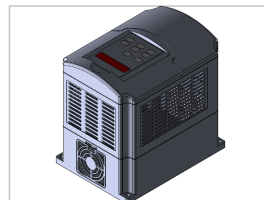
Fan
94%

+



Motor
96%

+



VFD
98%

=

System
Efficiency

88%

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Top View



Site View



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