



Amenity Space Extract Fan - Technical Submittal (TSM)

Project: New Cross Residential, Oldham Road
Project No: MC1160
TSM No: D464-AME-XX-XX-TS-M-0036

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CARBONCONSULTANTS



ameon
Building Services Engineering

Fans (Amenity Space) - Technical Submittal



Project New Cross Residential, Oldham Road
Project No. MC1160
Tech Submittal No. D464-AME-XX-XX-TS-M-0036

Ref.	Qty.	Location	Serving	Manufacturer	Model	Type	System/Mode	Design Air Vol (l/s)	Design ESP (Pa)	Controls
TEF01	1	Residents Lounge	WC & Store	Woods	ILC150	Inline	Extract	34	123	Continuous operation c/w BMS interface for fault alarm.

Notes:
1) Please Refer to D464-AME-ZZ-00-DR-M-5044 for further layout information
2) Attenuation proposal will be issued within a separate technical submittal



Northern Fan Supplies Ltd

Technical Data Sheet

Ropera - Tube Fan (Metal)



Quotation Number	:	Project Code	:
Project Name	:	Customer	:
Item Reference:	:	Date:	: Tuesday, February 21, 2023

Fan Code Ropera (ILC) 150mm Steel (3CA)
 Fan Diameter / Size 150
 Velocity 1.7 m/s
 Installation Type / Form of Running D / B (Horizontal)

Requested Duty (138V) 0.03m³/s @ 123 Pa (static)
 Control Adjustment 138V
 Outlet Dynamic Pressure 2 Pa

Duty Shaft Power 0.024 kW

Motor Frame Integral [Class F]
 Motor Rating 0.050 kW
 Full Load Current 0.22 A
 Starting Current 0.26 A
 Electrical Supply 220-240 Volts 50 Hz 1 Phase
 Start Type DOL
 Motor Winding Standard
 Enclosure Standard All

Regulation 1253/2014
 UVU Efficiency 28.6%
 UVU Target Efficiency 23.4%
 Nominal Flow Rate 0.08 m³/s @ 189 Pa
 Effective Input Power 0.050 kW
 Nominal RPM 2383 rpm

SFP value 0.79 W/(l/s) @ Requested Duty
 Power from mains 0.02 kW
 Energy Consumption 71 kWh (3000 h/year)
 Running Cost / Year £6

Air Density 1.2 kg/m³ / 20 °C / 0 m / 50% RH
 Smoke Venting Non Smoke Venting
 Product Number TF150015

Air Performance curves have been determined in accordance with ISO 5801.

Acoustic measurements have been performed in accordance with the relevant sections of ISO 3744. Sound Pressure levels dB(A) are quoted @ 3m distance under free field conditions. When an electronic voltage regulation is used to control the fan speed, enhanced motor noise can occur particularly when the operating speed is well below maximum. FWL therefore recommend using an auto transformer speed controller for noise sensitive applications.

Acoustic figures for adjusted running speeds have been interpolated and are for reference only.

This Offer is made subject to the latest version of our A100-19 Terms and Conditions, a copy of which can be made available on request. Our lead times will be re-confirmed on receipt of manufacturing release and may be subject to change.

	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	LwA*	LpA @ 3 m**
Inlet*	<20	31	44	45	45	44	41	29	51	31
Outlet*	<20	29	40	40	44	44	39	29	49	29
Breakout*	<20	21	25	27	29	28	21	<20	34	<20

* LwA dB re 10⁻¹² W

** dBA re 2x10⁻⁵ Pa

Sound data at requested duty.

Description	Qty
Fan TF150015 - Ropera (ILC) 150mm Steel (3CA)	1
Accessories	
Optional Controllers & Sensors	
 EEDS (Switched - Electronic) [EA900103]	Optional Accessories



Northern Fan Supplies Ltd

Combination Data Sheet

Ropera - Tube Fan (Metal)



Quotation Number	:	Project Code	:
Project Name	:	Customer	:
Item Reference:	:	Date:	: Tuesday, February 21, 2023

Fan Code Ropera (ILC) 150mm Steel (3CA)
Fan Diameter / Size 150
Velocity 1.7 m/s
Installation Type / Form of Running D / B (Horizontal)

Requested Duty (138V) 0.03m³/s @ 123 Pa (static)
Control Adjustment 138V
Outlet Dynamic Pressure 2 Pa

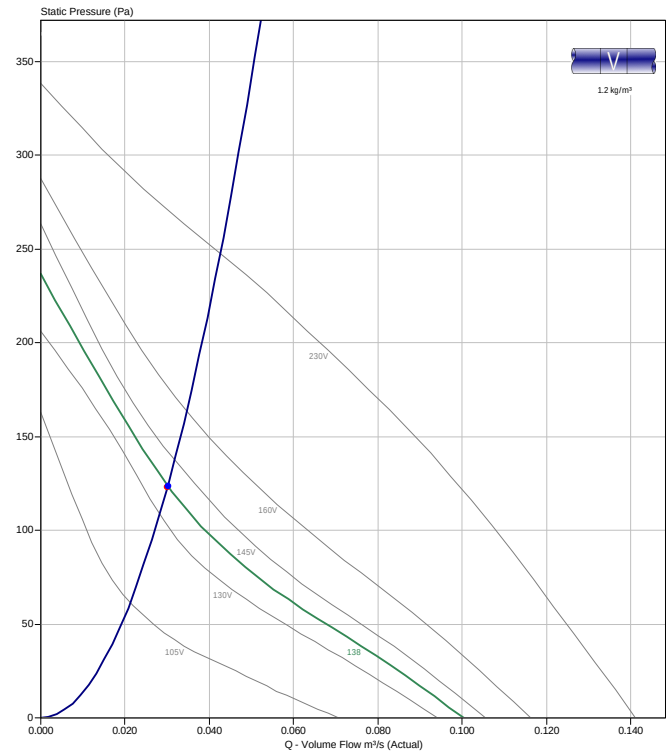
Duty Shaft Power 0.024 kW

Motor Frame Integral [Class F]
Motor Rating 0.050 kW
Full Load Current 0.22 A
Starting Current 0.26 A
Electrical Supply 220-240 Volts 50 Hz 1 Phase
Start Type DOL
Motor Winding Standard
Enclosure Standard All

Regulation 1253/2014
UVU Efficiency 28.6%
UVU Target Efficiency 23.4%
Nominal Flow Rate 0.08 m³/s @ 189 Pa
Effective Input Power 0.050 kW
Nominal RPM 2383 rpm

SFP value 0.79 W/(l/s) @ Requested Duty
Power from mains 0.02 kW
Energy Consumption 71 kWh (3000 h/year)
Running Cost / Year £6

Air Density 1.2 kg/m³ / 20 °C / 0 m / 50% RH
Smoke Venting Non Smoke Venting
Product Number TF150015



	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	LwA*	LpA @ 3 m**
Inlet*	<20	31	44	45	45	44	41	29	51	31
Outlet*	<20	29	40	40	44	44	39	29	49	29
Breakout*	<20	21	25	27	29	28	21	<20	34	<20

* LwA dB re 10⁻¹² W
** dBA re 2x10⁻⁵ Pa
Sound data at requested duty.

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Description		Qty
Fan TF150015 - Ropera (ILC) 150mm Steel (3CA)		1
Accessories		
Optional Controllers & Sensors		Optional Accessories
 EEDS (Switched - Electronic) [EA900103]		

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Quotation Number :
Project Name :
Item Reference: :

Project Code :
Customer :
Date: : Tuesday, February 21, 2023

Fan Code	Ropera (ILC) 150mm Steel (3CA)
Fan Diameter / Size	150
Velocity	1.7 m/s
Installation Type / Form of Running	D / B (Horizontal)

Requested Duty (138V)	0.03m³/s @ 123 Pa (static)
Control Adjustment	138V
Outlet Dynamic Pressure	2 Pa

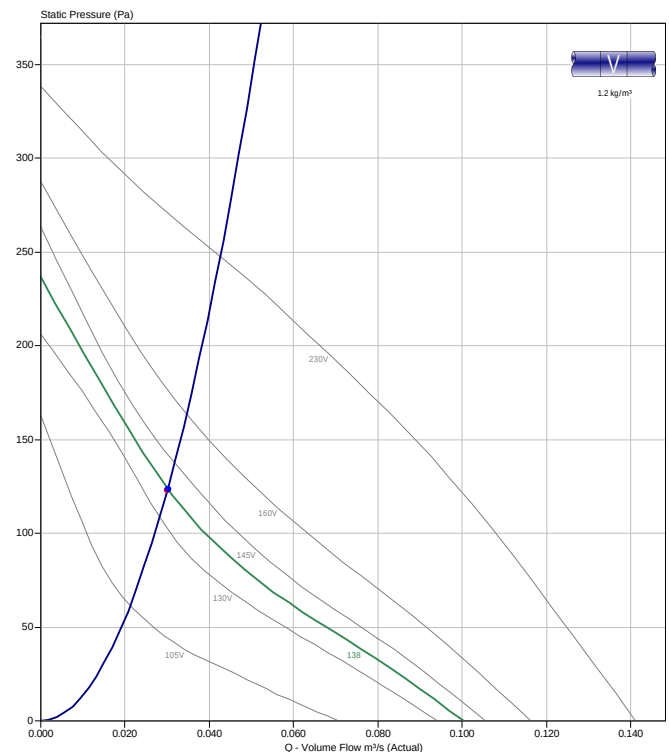
Duty Shaft Power	0.024 kW
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Motor Frame	Integral [Class F]
Motor Rating	0.050 kW
Full Load Current	0.22 A
Starting Current	0.26 A
Electrical Supply	220-240 Volts 50 Hz 1 Phase
Start Type	DOL
Motor Winding	Standard
Enclosure	Standard All

Regulation 1253/2014	
UVU Efficiency	28.6%
UVU Target Efficiency	23.4%
Nominal Flow Rate	0.08 m³/s @ 189 Pa
Effective Input Power	0.050 kW
Nominal RPM	2383 rpm

SFP value	0.79 W/(l/s) @ Requested Duty
Power from mains	0.02 kW
Energy Consumption	71 kWh (3000 h/year)
Running Cost / Year	£6

Air Density	1.2 kg/m³ / 20 °C / 0 m / 50% RH
Smoke Venting	Non Smoke Venting
Product Number	TF150015



	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	LwA*	LpA @ 3 m**
Inlet*	<20	31	44	45	45	44	41	29	51	31
Outlet*	<20	29	40	40	44	44	39	29	49	29
Breakout*	<20	21	25	27	29	28	21	<20	34	<20

* LwA dB re 10^{-12} W ** dBA re 2×10^{-5} Pa
Sound data at requested duty.

will be re-confirmed on receipt of manufacturing release and may be subject to change.

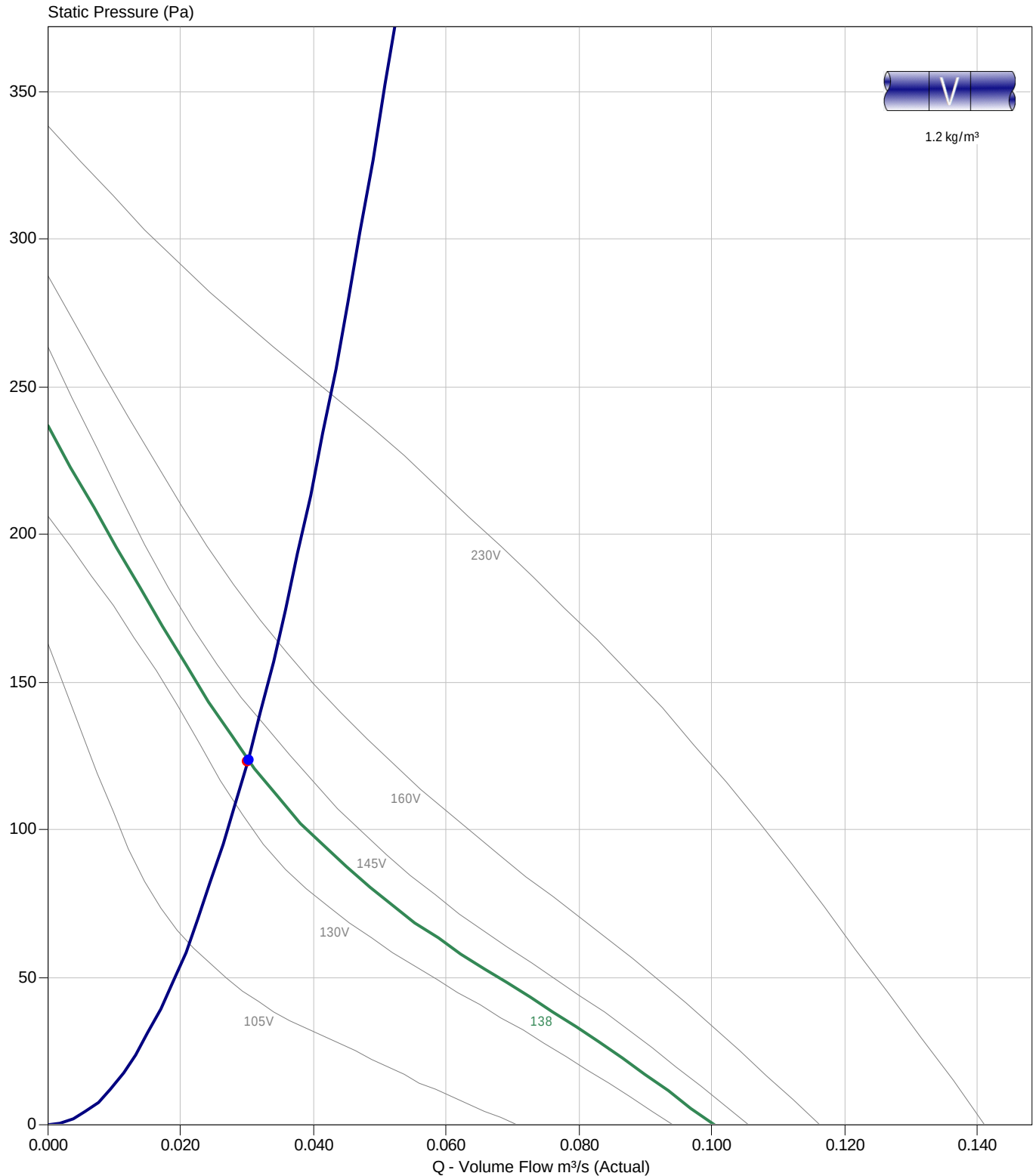
Description		Qty
Fan TF150015 - Ropera (ILC) 150mm Steel (3CA)		1
Accessories		
Optional Controllers & Sensors	Optional Accessories	
 EEDS (Switched - Electronic) [EA900103]		



Northern Fan Supplies Ltd
Performance Chart
Ropera - Tube Fan (Metal)



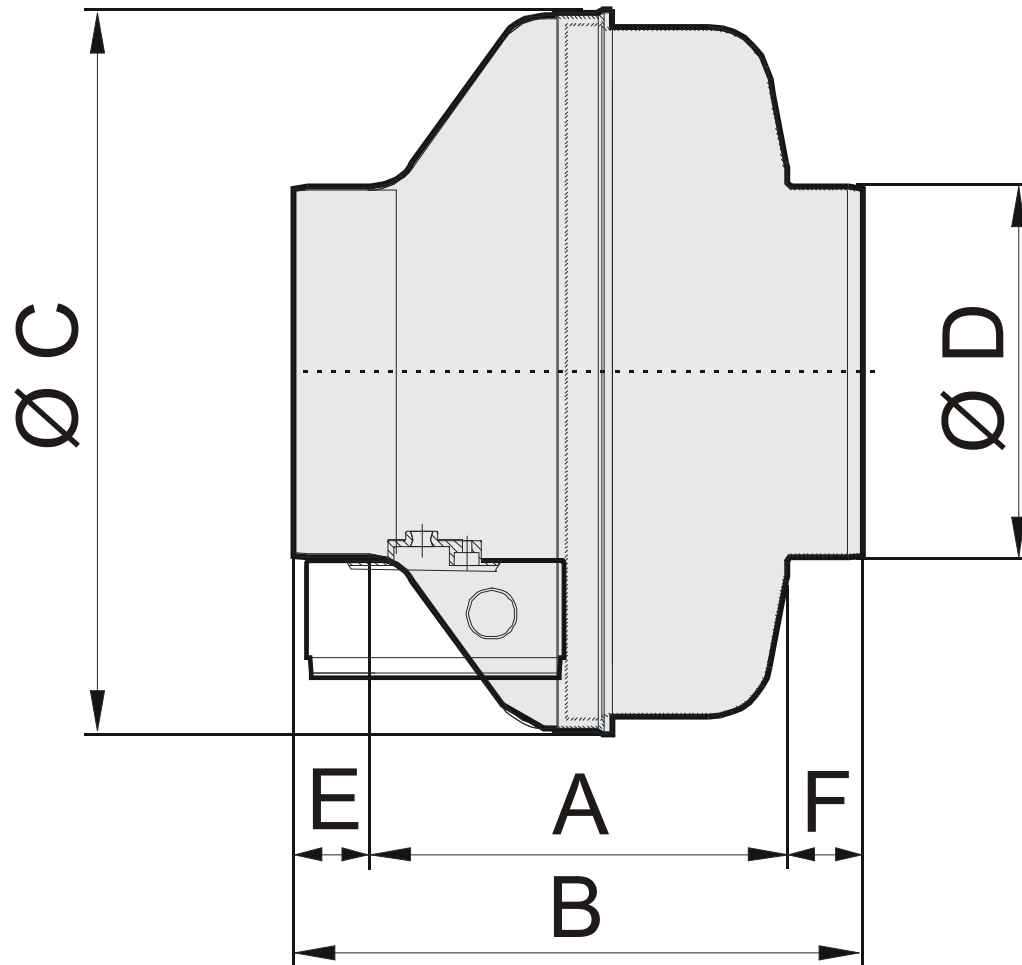
Quotation Number	:	Project Code	:
Project Name	:	Customer	:
Item Reference:	:	Date:	: Tuesday, February 21, 2023
		Fan Code	: Ropera (ILC) 150mm Steel (3CA)





Quotation Number :
Project Name :
Item Reference: :

Fan Code : Ropera (ILC) 150mm Steel (3CA)
Customer :
Date: : Tuesday, February 21, 2023



A	140
B	190
C	341
D	150
E	25
F	25
Weight	3.7

Notes : Dimensions shown in mm / Weight in kg

Reference :Catalogue drawing

This drawing shows dimensions that should be used as a guide only and are subject to change. Certified drawings are available on request.

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