






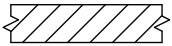

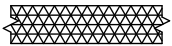
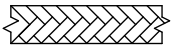
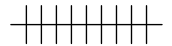

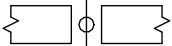




DUCT COLOUR / SYMBOL

KITCHEN EXHAUST DUCTWORK	
KITCHEN SUPPLY DUCTWORK	
TOILET EXHAUST DUCTWORK	
GENERAL EXHAUST DUCTWORK	
AC - SUPPLY DUCTWORK	
AC - RETURN AIR DUCTWORK	
EXISTING DUCTWORK	
25mm INTERNALLY INSULATED	
50mm INTERNALLY INSULATED	
SILENCER	
FYREWRAP (FR)	
FLEX	
RISER / DROPPER	
FIRE DAMPER (FD)	
VOLUME CONTROL DAMPER (VCD)	
AIRFLOW DIRECTION	

MECHANICAL EQUIPMENT

KEH	KITCHEN EXHAUST HOOD
KEF	KITCHEN EXHAUST FAN
KEG	KITCHEN EXHAUST GRILLE
SAF	SUPPLY UP AIR FAN
SAG	SUPPLY UP AIR GRILLE
VSD	VARIABLE SPEED DRIVE
ESP	ELECTROSTATIC PRECIPITATOR
CB	CARBON BOX UNIT
OZ	OZONE GENERATOR
TEF	TOILET EXHAUST FAN
TEG	TOILET EXHAUST GRILLE
GEF	GENERAL EXHAUST FAN
GEG	GENERAL EXHAUST GRILLE
FD	FIRE DAMPER
VCD	VOLUME CONTROL DAMPER
MVCD	MOTORISED VOLUME CONTROL DAMPER
FCU	FAN COIL UNIT (INDOOR)
CU	CONDENSING UNIT (OUTDOOR)
AHU	AIR HANDLING UNIT
ACG	AC GRILLE
OAF	OUTSIDE AIR FAN
VFD	VARIABLE FREQUENCY DRIVE
DOL	DIRECT ON LINE

ABBREVIATIONS

L/S	LITERS PER SECOND
PA	PASCALS
FFL	FINISHED FLOOR LEVEL
TBC	TO BE CONFIRMED
SM	SITE MEASUREMENT
AP	ACCESS PANEL - INDUCT
CAP	CEILING ACCESS PANEL
FR	FYREWRAP
BB	BASE BUILD
U/S	UNDERSIDE
UNO	UNLESS NOTED OTHERWISE
TYP	TYPICAL

 1300 4 CAVALIER (22825) www.cavaliervent.com.au 29 Liverpool St, Ingleburn, NSW, 2565	CHIPPERS , MANLY MANLY WHARF	SIGNATURE AND DATE		CAVALIER LEGEND		JB
						MECH 101
		<u>SITE CONTACT</u> NAME <u>PH #</u> 04		Date 4-04-2025 Drawn by AC	DO NOT SCALE FROM DRAWING Scale @ A3	REV 5

DRAWING NOTES


- 1: ALL DUCTWORK SIZES SHOWN ARE OVERALL DUCTWORK SIZE AND NOT CLEAR AIRWAY SIZE.
- 2: ALL WORK TO BE CARRIED OUT IN A WORKMANSHIP LIKE MANNER AND COMPLIES WITH ALL RELEVANT CODES AND STANDARDS. BCA, AS1668.1:1998/2015, AS1668.2:2012, AS 4254 SECTION J.
- 3: CLEAN OUT / ACCESS PANELS TO BE INSTALLED IN ACCORDANCE WITH AS1668 PART 1. ACCESS PANELS TO BE INSTALLED EVERY 3 METERS OR TURN OF DIRECTION. HORIZONTAL DUCTWORK ONLY. DUCTWORK SHALL BE INSTALLED WITH A RISE IN DIRECTION OF AIRFLOW OF NOT LESS THAN 0.5% IN ACCORDANCE WITH AS1668 PART 1. PROVIDE DRAINS AT ALL LOW POINTS.
- 4: KITCHEN EXHAUST DUCTWORK WITHIN THE FIRE COMPARTMENT OF THE HOODS BEING SERVED SHALL BE INSULATED TO ACHIEVE -/-30 FRL WITH DUCT WRAPPED IN 25mm MINERAL WOOL ATTACHED WITH NON-COMBUSTIBLE FASTENINGS IN ACCORDANCE WITH AS1668.1:2015 SECTION 6.2.3.3 WHERE DUCTWORK IS INSTALLED WITHIN 300MM OF ANY COMBUSTIBLE MATERIAL BY BUILDER.
- 5: ALL FAN UNITS TO BE WIRED TO COMPLY WITH AS3000:2018. OVERLOAD PROTECTION WITH PHASE FAIL, ALSO TO BE WIRED IN COMPLIANCE WITH AS1668.2:2012 BCA AND SECTION J PER CODES.
- 6: SERVICES TO BE RELOCATED BY OTHERS TO SUIT NEW MECHANICAL DESIGN WHERE REQUIRED (BUILDING WORKS).
- 7: COOKING EQUIPMENT SHOWN ON DRAWING ARE FOR VISUAL PURPOSE ONLY. PLEASE REFER TO COOKING SPEC SHEET FOR DATA AND SIZES
- 8: ALL DRAWINGS BELONG TO CAVALIER VENTILATION P/L AND CANNOT BE REPRODUCED PARTLY OR WHOLE WITHOUT THE APPROVAL FROM CAVALIER VENTILATION P/L.
- 9: WHERE THE DIAMETER OF THE FLEXIBLE DUCT EXCEEDS THE DEPTH OF THE RIDGE DUCT IT ORIGINATES FROM, AN OVAL DUCT HAVING A SIMILAR CIRCUMFERENCE TO THE FLEXIBLE DUCT MAY BE USED
- 10: LOCATION OF GRILLES AND DIFFUSERS LOCATED IN CEILING AND DUCTWORK ARE APPROXIMATE AND FINAL POSITION TO BE CONFIRMED ONSITE
- 11: ALL DOORS TO MECHANICALLY VENTILATED AMENITIES AREAS SHALL BE 25mm UNDERCUT OR GRILLE INSTALLED INTO DOOR BY BUILDER (UNLESS NOTED OTHERWISE)
- 12: ACCESS PANELS LOCATED IN PASTEBOARD CEILING SHALL BE POSITION TO SUIT MECHANICAL SYSTEM EQUIPMENT/S AND SHALL BE SUPPLIED AND INSTALLED BY BUILDER
- 13: A SUITABLE SIZE CONDENSATE DRAIN SHALL BE RUN FROM EACH AC UNIT TO A TUNDISH OR FLOOR WASTE BY BUILDER
- 14: FAN COIL UNITS (FCU'S) SHALL BE MOUNTED ON SPRINGS
- 15: ALL PENETRATIONS THROUGH FIRE RATED WALLS AND CONCRETE SLAB BY BUILDER
- 16: NO RCD'S TO BE INSTALLED ONTO MECHANICAL SYSTEM/S THAT HAVE A VARIABLE SPEED DRIVE INSTALLED.

KITCHEN HOODS REQUIREMENTS

- 1: THE PURCHASER IS RESPONSIBLE FOR PROVIDING CAVALIER, ACCURATE INFORMATION FROM COOKING EQUIPMENT SUPPLIER/S FOR CONSIDERATION IN HOOD DESIGN.
- 2: THE KITCHEN EXHAUST SYSTEM MUST ACHIEVE THE AIRFLOW AS SPECIFIED IN THIS DOCUMENT, MEASURED AT THE RANGEHOOD FILTERS IN THE CAVALIER KITCHEN EXHAUST HOOD/S.
- 3: THE SPECIFIED EXHAUST STATIC PRESSURE AT THE HOOD'S COLLAR IS NOT THE TOTAL SYSTEM PRESSURE AND DOES NOT INCLUDE THE PRESSURE DROP OF DUCTS INCLUDING TRANSITIONS AND BENDS, INDUCT FILTRATION OR TREATMENT SYSTEMS, ATTENUATORS, DISCHARGE REGISTERS OR ANY OTHERS ITEMS IN THE EXHAUST SYSTEMS.
- 4: IF THE MAKE-UP AIR IS HOTTER THAN 27°C OR LESS THEN 18°C , AIR CONDITIONING OR TEMPERING SHOULD BE CONSIDERED TO PROVIDED COMFORT IN THE KITCHEN ENVIRONMENT. IF AMBIENT TEMPERATURES EXCEED 27°C, ALL AIRFLOW RATES MUST BE INCREASED TO COMPENSATE FOR BODY HEAT AND ODOUR (REF AS1668.2) AND REMOVE CONTAMINANTS FROM THE KITCHEN.
- 5: THE KITCHEN EXHAUST FAN SHOULD HAVE BACKWARDS INCLINED CENTRIFUGAL BLADES TO ALLOW RELEASE OF ANY GREASE DURING OPERATION. THE EXHAUST FAN SHOULD ACHIEVE THE REQUIRED AIRFLOW AT NO MORE THAN 70% OF IT'S DESIGN STATIC CAPACITY.
- 6: CANOPY LIGHTS ARE WIRED TO A 240V AC 10A 3 PIN PLUG WITH ~1m FLEX FOR CONNECTION BY OTHERS TO THE KITCHEN LIGHTING POWER SUPPLY.
- 7: THE MAKE-UP AIR AIRFLOW NOMINATED IN THIS DOCUMENT IS THE AMOUNT OF AIR THAT CAN BE PASSED THROUGH THE FRONT PANEL WITHOUT CREATING TURBULENCE. TO BALANCE THE KITCHEN ADDITIONAL MAKE-UP AIR MAY NEED TO BE SUPPLIED THROUGH CEILING OR WALL REGISTERS BY OTHERS. SUCH REGISTERS MUST NOT BE POSITIONED TO CREATE TURBULENCE OR DRAFT IN THE COOKING ZONE.

AS 1668 - TABLE 3.4 MINIMUM SEPARATION DISTANCES BETWEEN DISCHARGES AND INTAKES, BOUNDARY OR NATURAL VENTILATION DEVICE	
AIRFLOW RATE WITHIN THE MINIMUM DISTANCE L/S	MINIMUM DISTANCE m
<200	1 (SEE NOTE)
<400	2
<600	3
<800	4
<1000	5
≥1000	6
NOTE: FOR AIRFLOW RATES LESS THAN 200L/S, SEPARATION OF DISCHARGE FROM NATURAL VENTILATION OPENING WITHIN THE SAME SOLE OCCUPANCY UNIT DO NOT APPLY	

MANUFACTURING AND ORDERING OF ALL COMPONENTS WILL NOT START UNTIL DRAWINGS HAVE BEEN SIGNED OR WRITTEN APPROVAL HAS BEEN RECEIVED AND DEPOSIT PAID (IF APPLICABLE, AS PER TERMS AND CONDITIONS LISTED ON QUOTATION).



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CHIPPERS , MANLY

MANLY WHARF

SIGNATURE AND DATE

SITE CONTACT

NAME

PH #

04

DRAWING NOTES

Date

4-04-2025

DO NOT SCALE FROM DRAWING

Scale @ A3

Drawn by

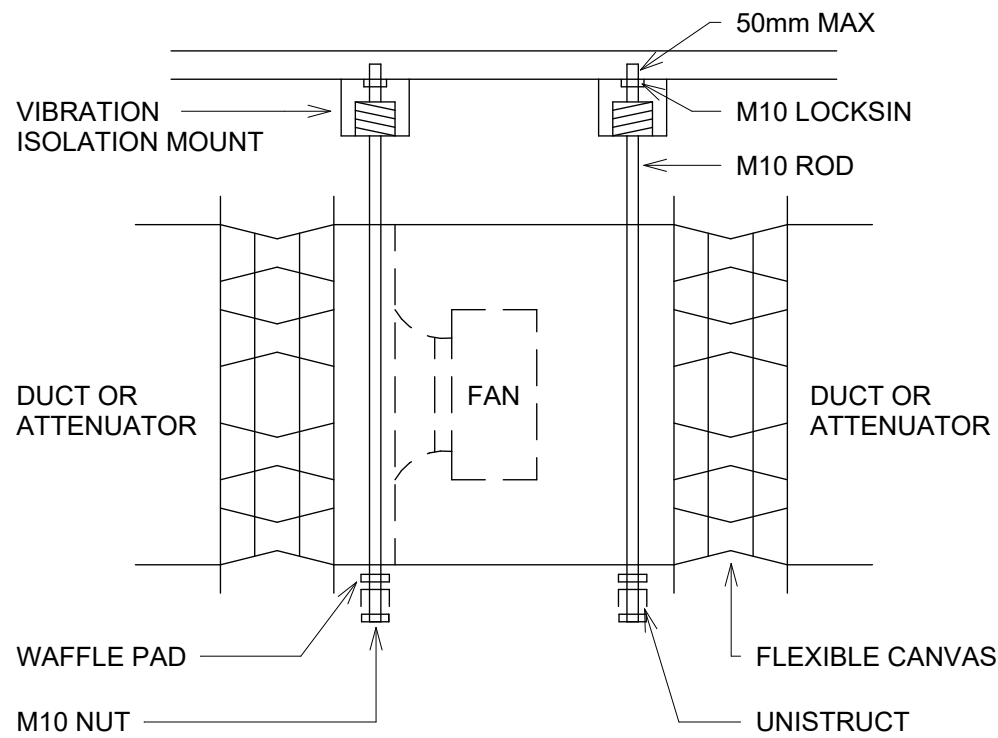
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JB

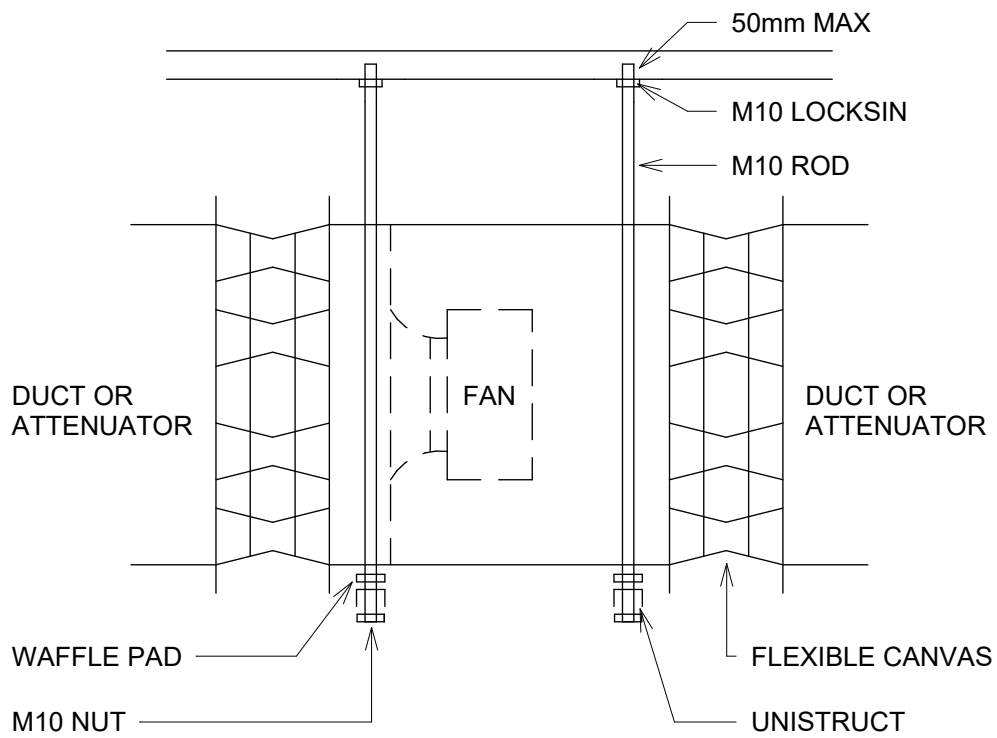
MECH 102

REV 5

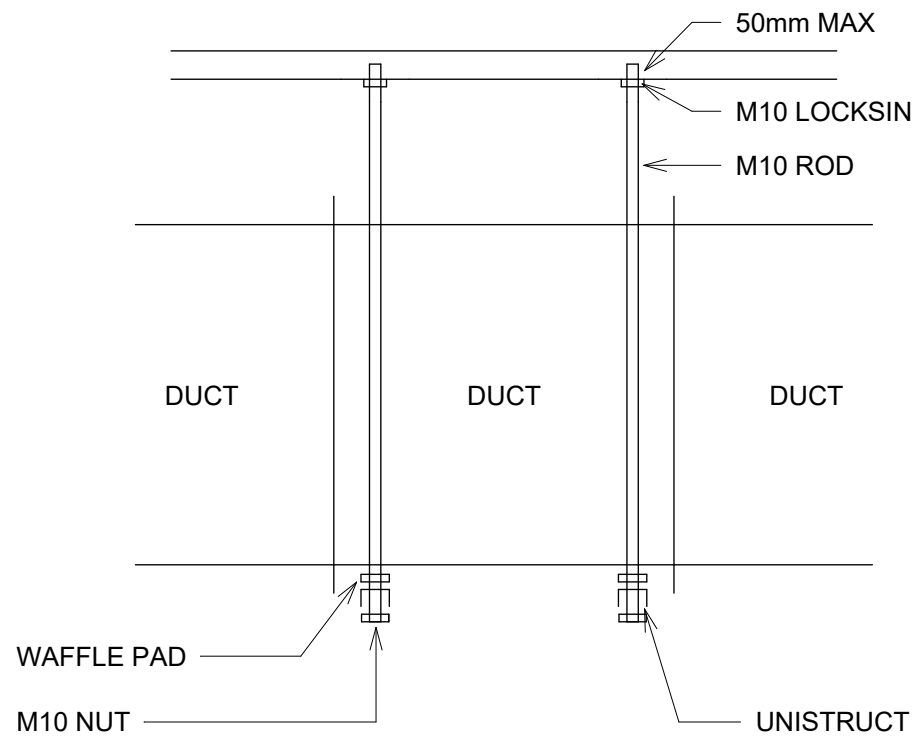
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- RESIDENTIAL ABOVE



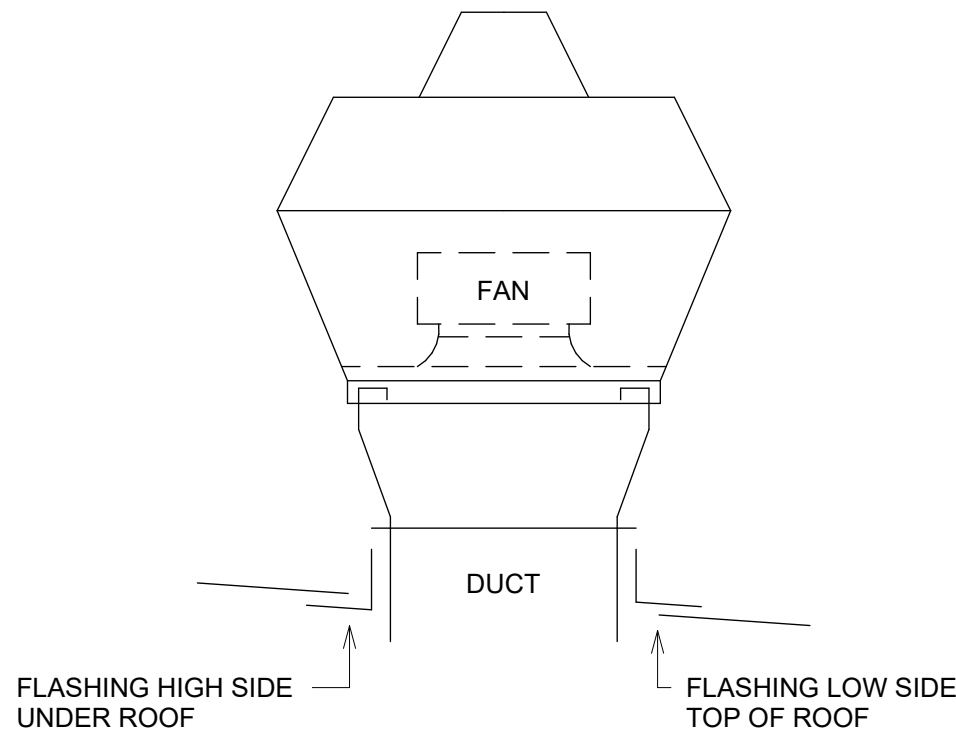
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- NO RESIDENTIAL ABOVE



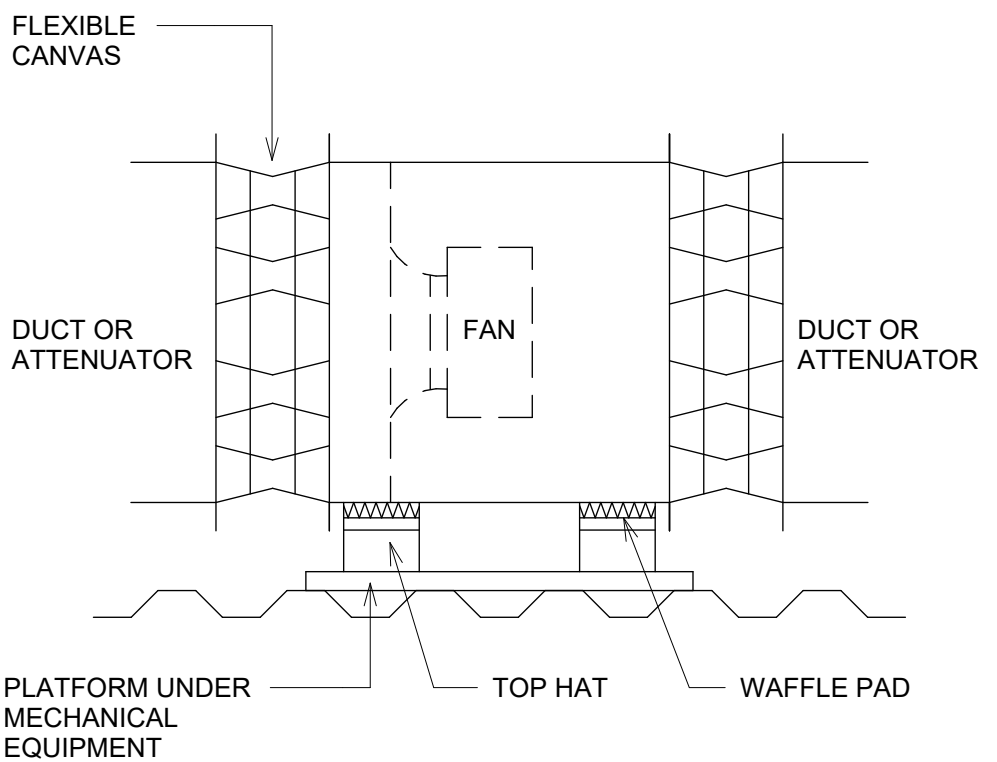
TYP HANGING DUCTWORK MOUNTING SETOUT
- UNDER 15KG



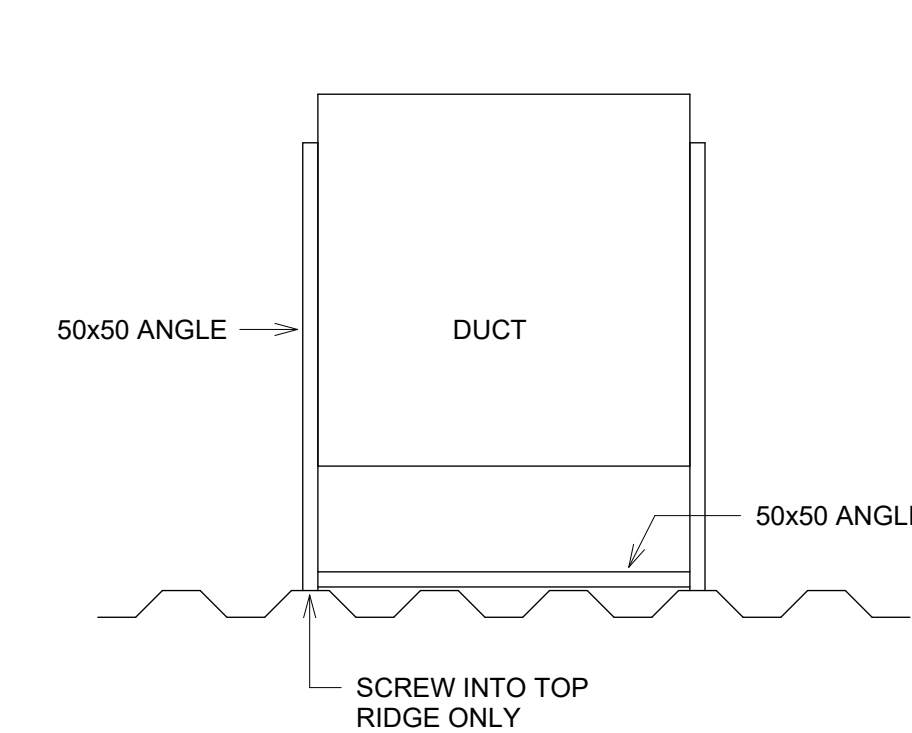
TYP ROOF FLASHING AND FAN SETOUT



TYP INLINE FAN ROOF SETOUT



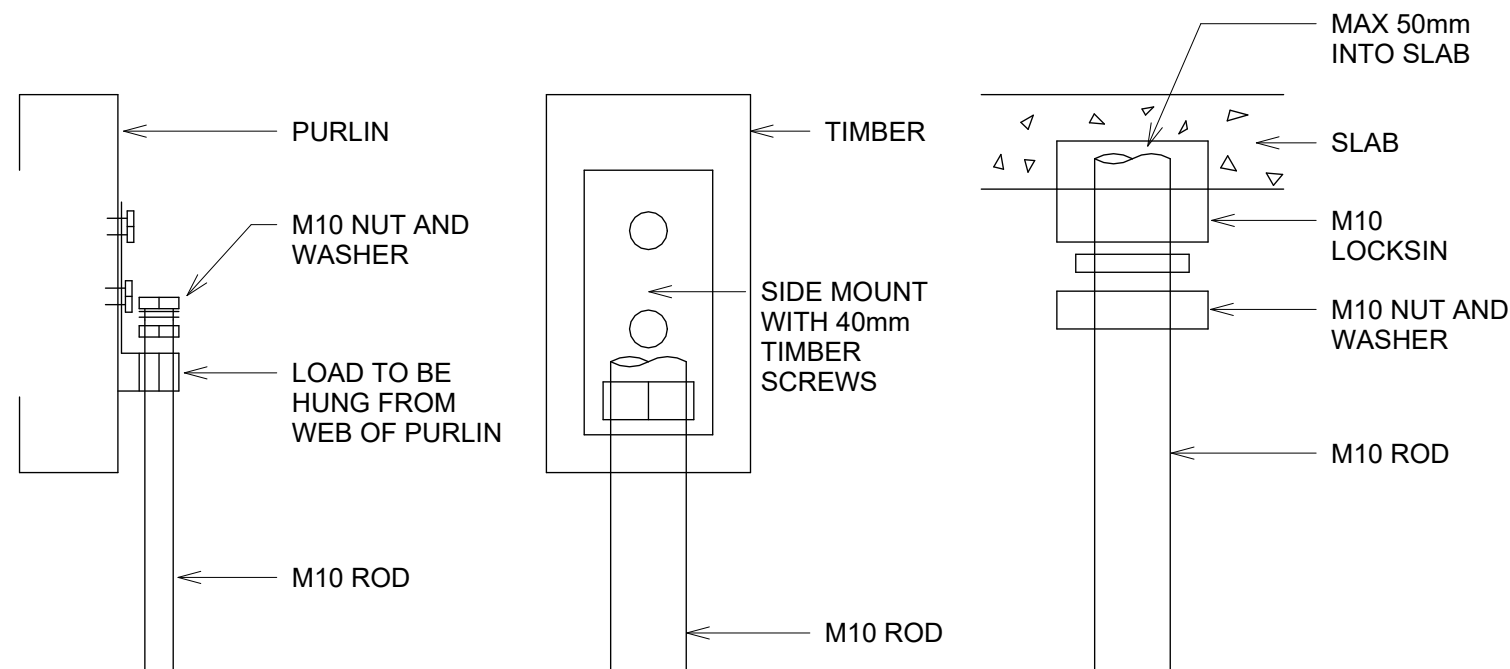
TYP HORIZONTAL DUCTWORK ROOF STAND



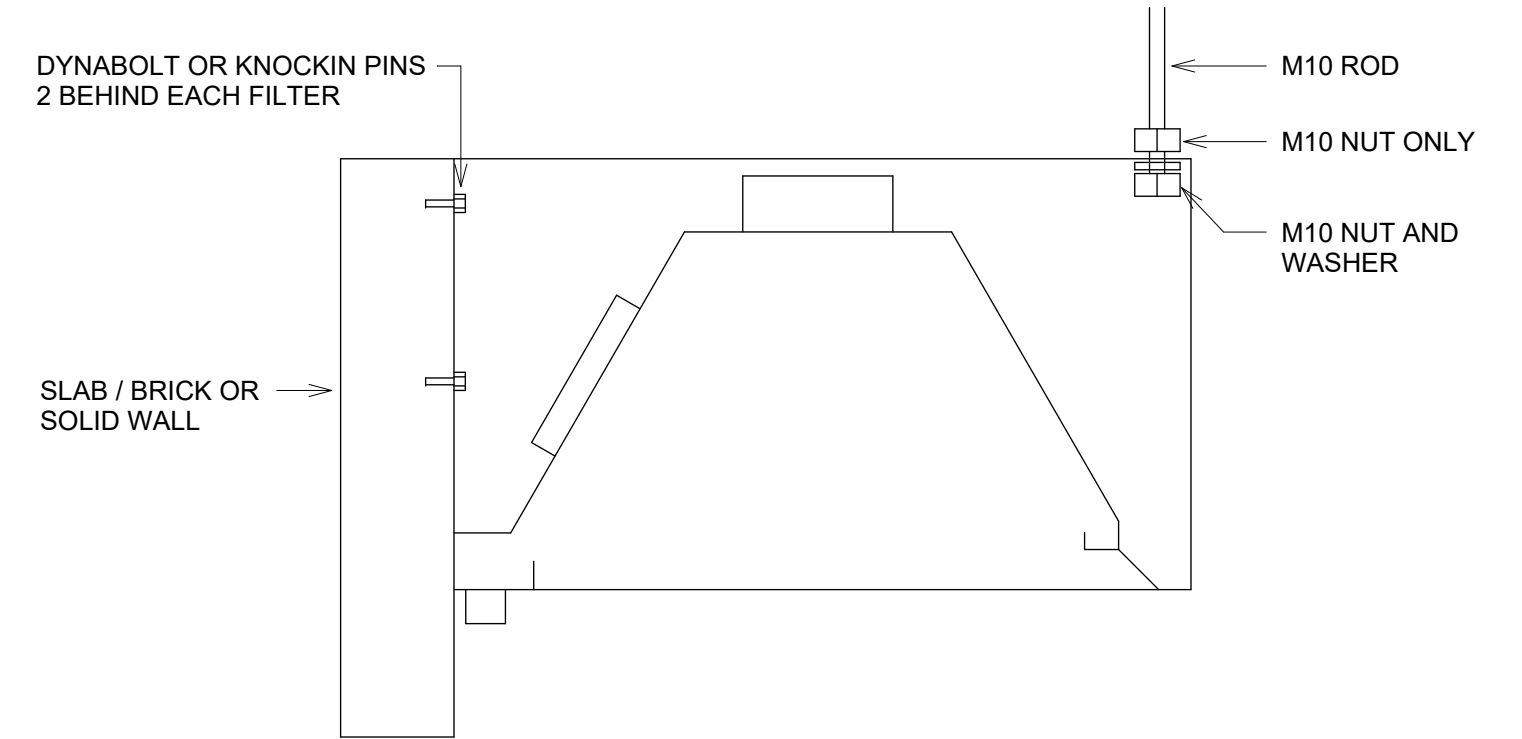
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		<u>SITE CONTACT</u>	NAME	Date	4-04-2025	MECH 103
		<u>PH #</u>	04	Drawn by	AC	REV 5
				DO NOT SCALE FROM DRAWING		Scale @ A3

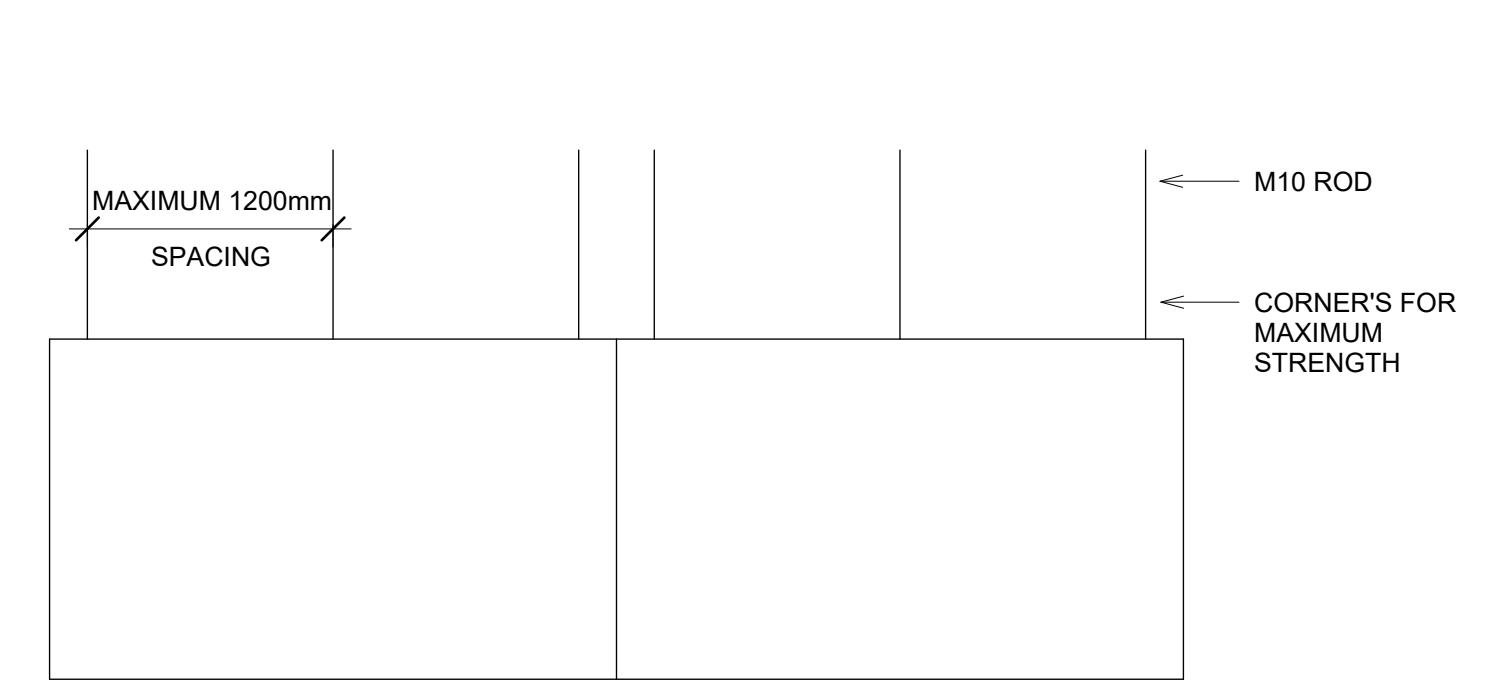
TYP HANGING SUPPORT SETOUT FOR RANGEHOOD



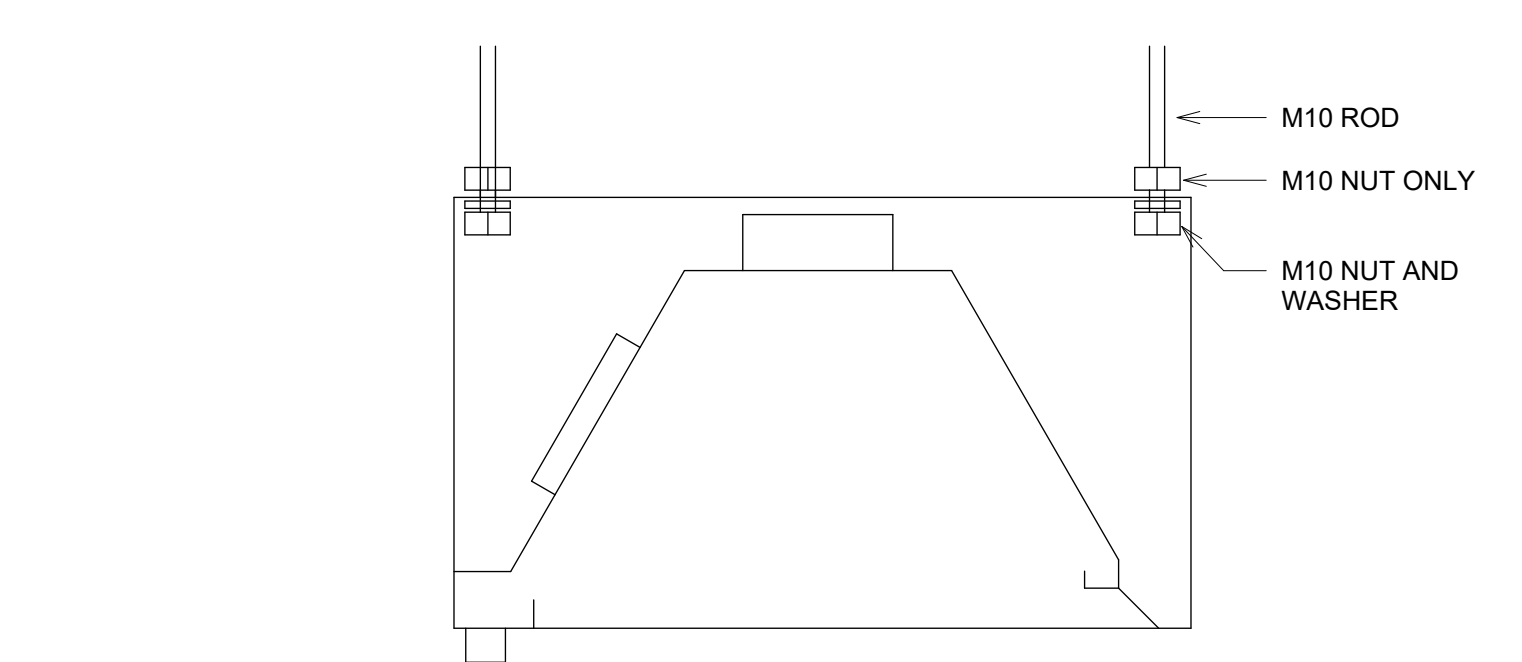
TYP WALL MOUNT RANGEHOOD SETOUT



TYP RANGEHOOD ROD SETOUT

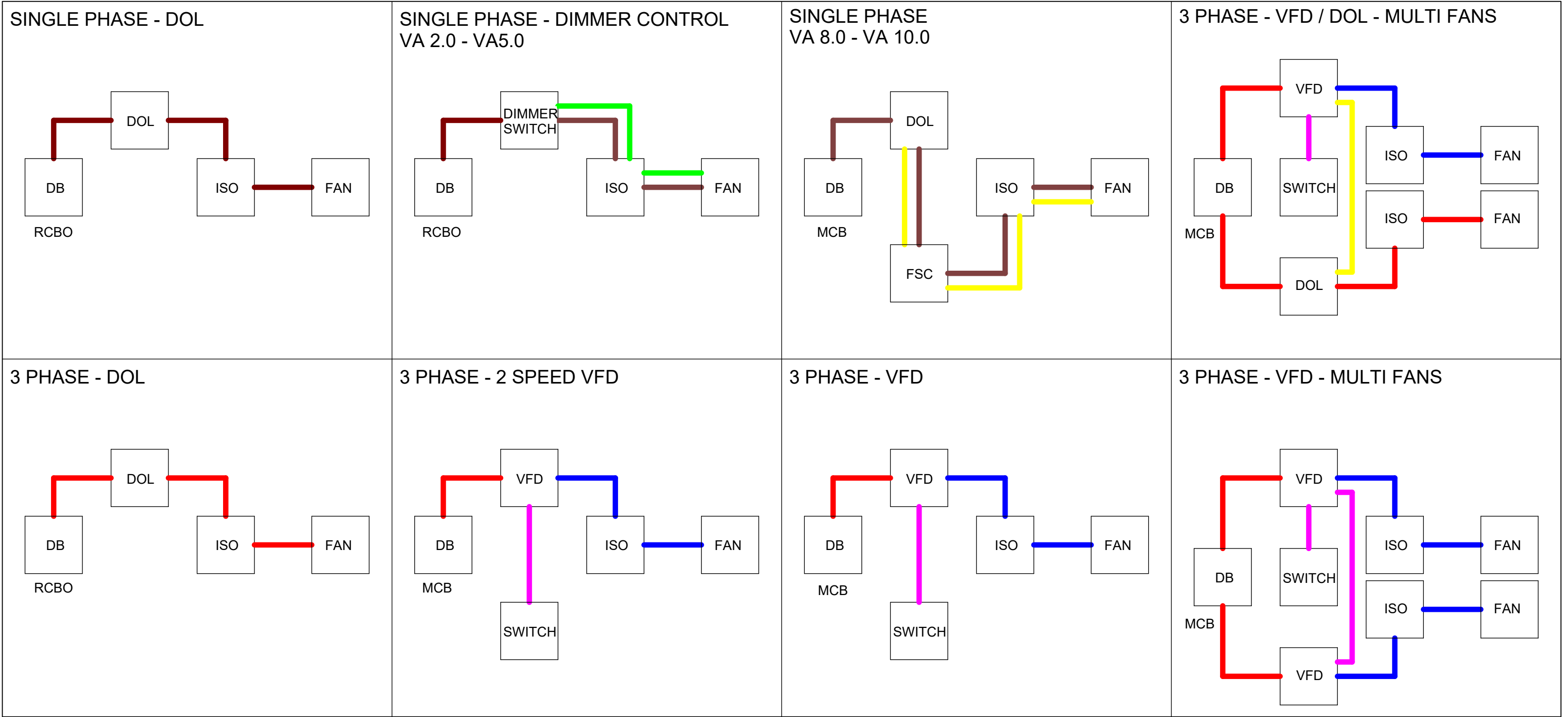


TYP ISLAND MOUNT RANGEHOOD SETOUT



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		<u>SITE CONTACT</u> NAME		Date 4-04-2025		MECH 104
		<u>PH #</u> 04		Drawn by AC	DO NOT SCALE FROM DRAWING Scale @ A3	REV 5



	3 CORE + EARTH	- ORANGE CIRCULAR CABLE, 2.5mm	DOL	DIRECT ON LINE
	4 CORE	- SCREEN, 2.5mm	DB	DISTRIBUTION BOARD
	4 CORE	- SHIELDED CABLE, HI / LOW SPEED	ISO	ISOLATION SWITCH
	TWIN + EARTH	- 2.5mm	FSC	FAN SPEED CONTROLLER
	TWIN	- 2.5mm		
	SINGLE DOUBLE INSULATED	- 2.5mm		
				TYPE C BREAKERS

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CHIPPERS , MANLY

MANLY WHARF

SIGNATURE AND DATE

SITE CONTACTNAME

PH #04

ELECTRICAL WIRING
DETAIL

Date4-04-2025

Drawn byAC

DO NOT SCALE
FROM DRAWING

Scale @ A3

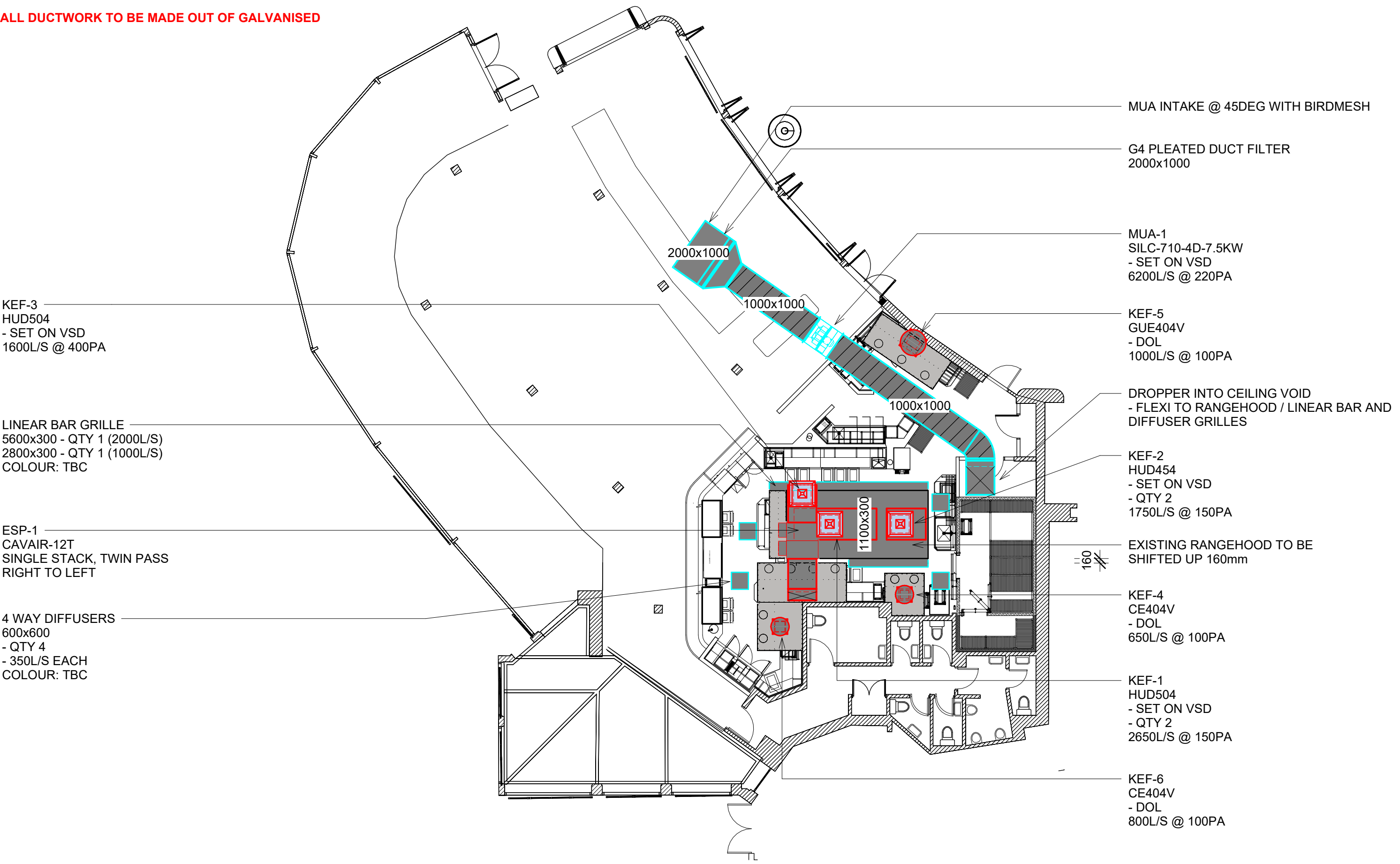
JB

MECH
105

REV 5

4/04/2025 11:09:13 AM

ALL DUCTWORK TO BE MADE OUT OF GALVANISED





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VENTILATION
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CHIPPERS , MANLY

MANLY WHARF

SIGNATURE AND DATE

SITE CONTACT

PH #

NAME

04

PLAN VIEW

Date

4-04-2025

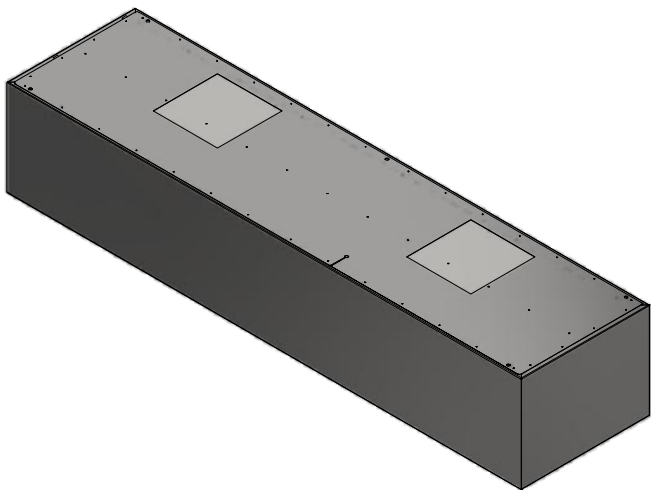
DO NOT SCALE
FROM DRAWING

Scale @ A3
1 : 125

JB

MECH
201

REV 5



K24 EXT
STD 2405/600/450

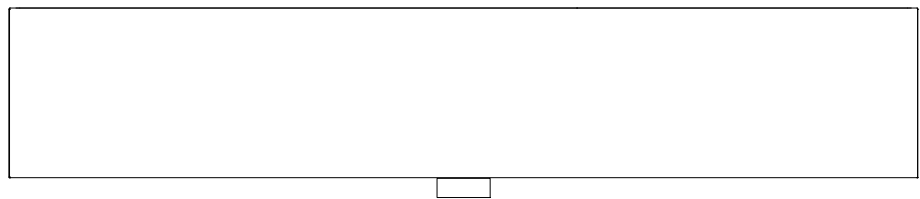
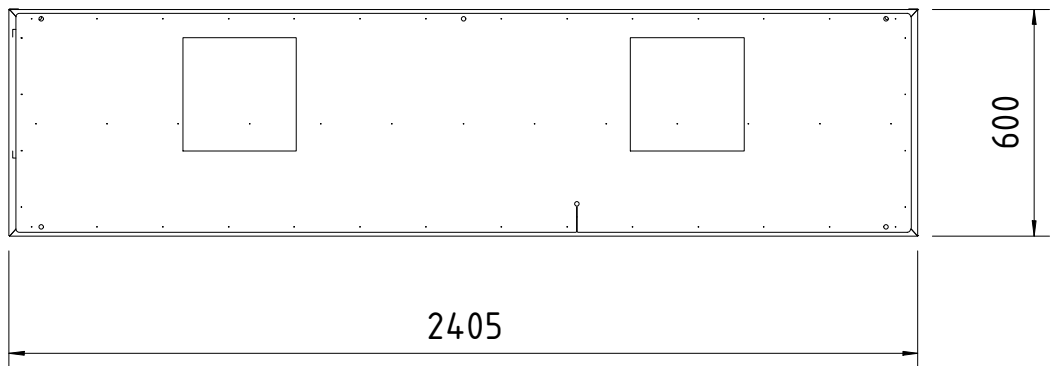
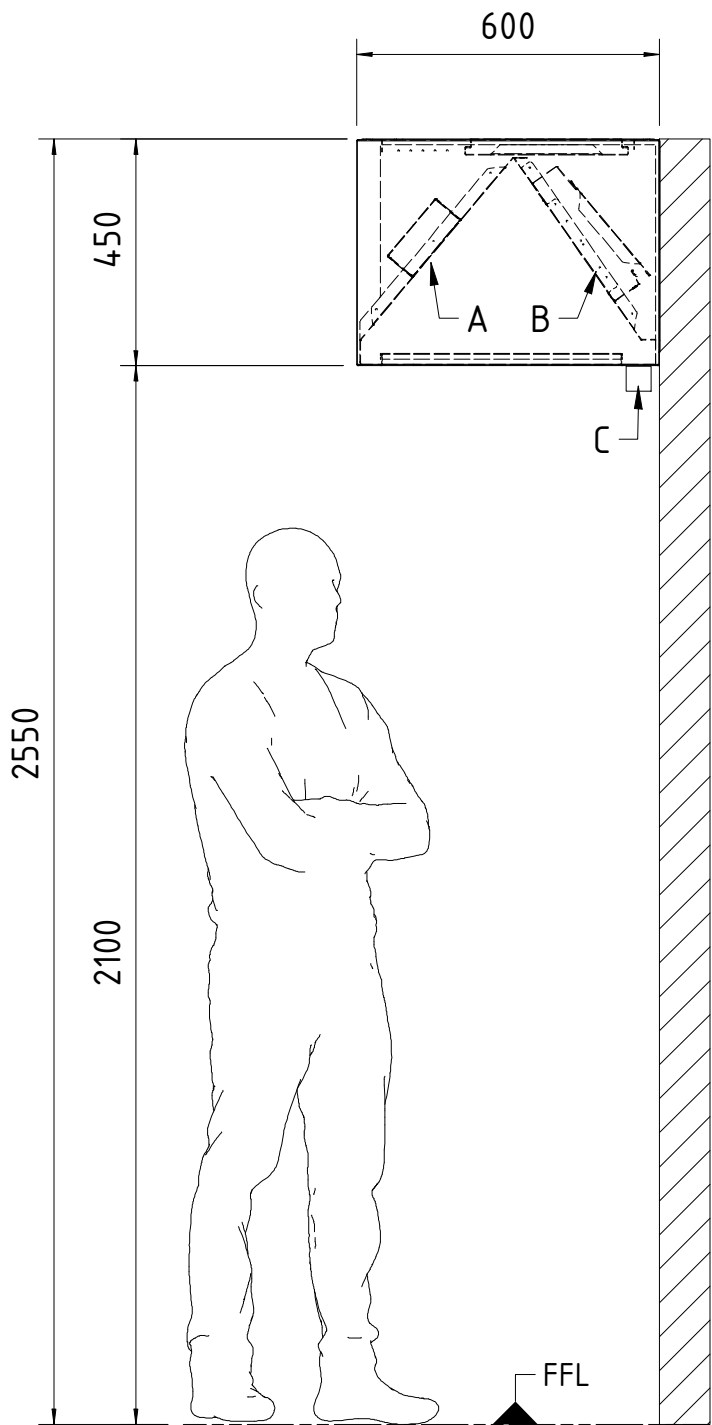
EXHAUST 700L/S @ 110PA

CAVALIER RANGEHOOD
- STAINLESS STEEL

- A LED DOWNLIGHTS - QTY 2
- B STAINLESS STEEL BAFFLE FILTERS - QTY 4 (457x381)
- C WASTE DRAIN POT - QTY 1
- D BALANCING SLIDE DAMPER

COOKING EQUIPMENT UNDER HOOD

FRYER
SALAMANDER



SPIGOTS TO BE COORDINATED ONSITE

INTERNAL SLIDE DAMPER INSTALLED IN HOOD FOR BALANCING

10 AMP MALE PLUG LEAD ON TOP OF RANGEHOOD
CENTER OF EACH SECTION APPROX 300mm LONG LEAD

REMOVAL OF PLASTIC ON RANGEHOOD TO BE DONE BY CLEANER
UPON COMPLETION OF PROJECT



ALL DIMENSIONS IN mm
DO NOT SCALE - IF IN DOUBT ASK

AS1100
3RD ANGLE
PROJECTION

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SCALE: 1/20

DATE: 3/08/2023

DRAWN: CONFIG 4.6

REVISION: 1

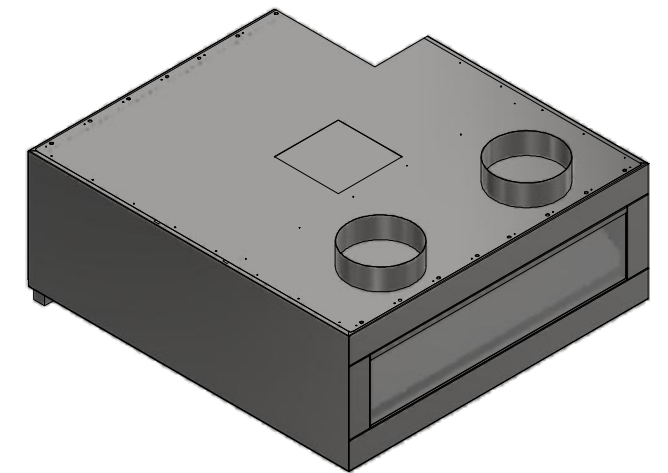
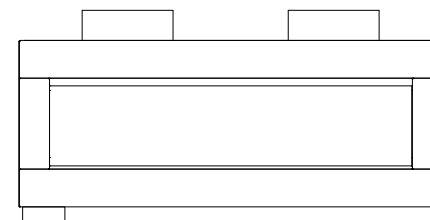
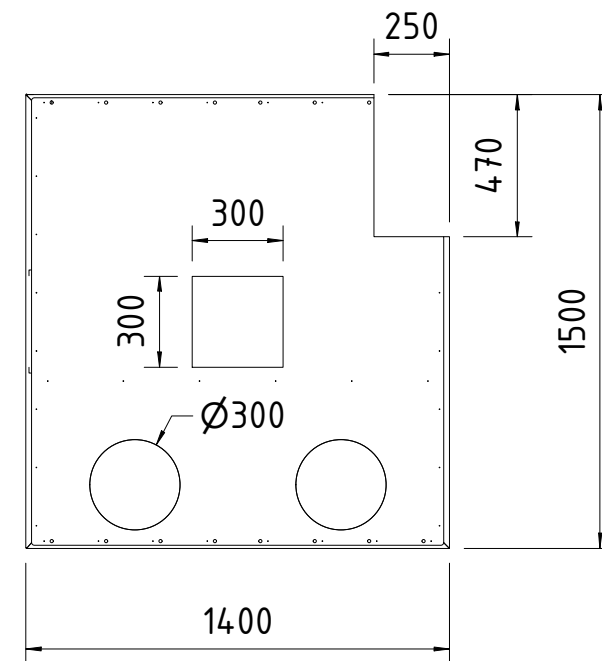
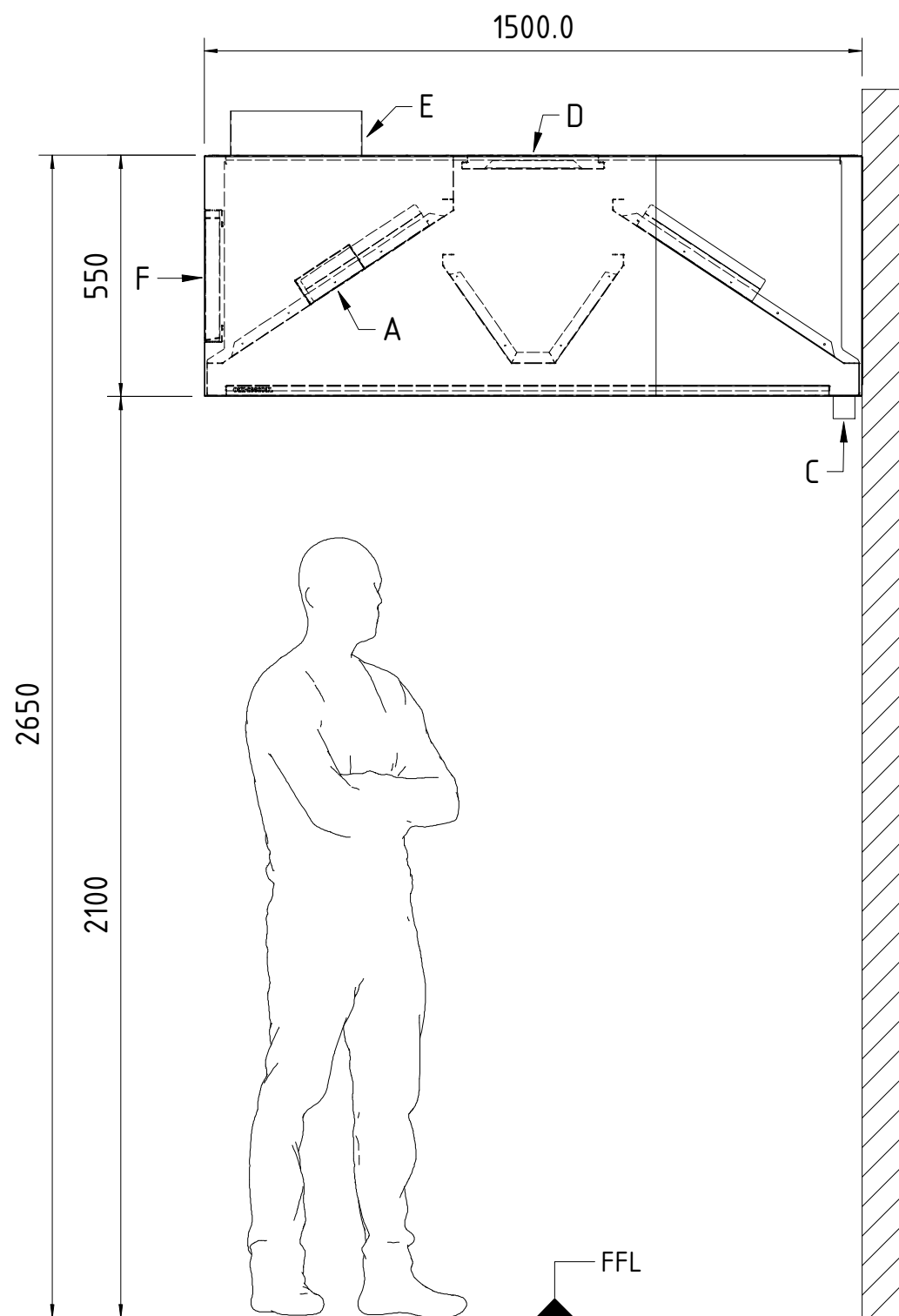
JOB No.: JB02882-K24 EXT

CLIENT: CHIPPERS, MANLY

DESCRIPTION: EXTRACTION HOOD ASSEMBLY

PART No.: EHA-JB02882-K24 EXT

A3



SPIGOTS TO BE COORDINATED ONSITE

INTERNAL SLIDE DAMPER INSTALLED IN HOOD FOR BALANCING

**10 AMP MALE PLUG LEAD ON TOP OF RANGEHOOD
CENTER OF EACH SECTION APPROX 300mm LONG LEAD**

**REMOVAL OF PLASTIC ON RANGEHOOD TO BE DONE BY CLEANER
UPON COMPLETION OF PROJECT**

**K30
WCDS 1400/1500/550**

EXHAUST 650L/S @ 60PA

SUPPLY 500L/S @ 60PA

**CAVALIER RANGEHOOD
- STAINLESS STEEL**

**A LED DOWNLIGHTS - QTY 1
C WASTE DRAIN POT - QTY 1
D BALANCING SLIDE DAMPER
E SUPPLY SPIGOT - 300Ø
F STAINLESS STEEL PERFORATED MESH**

COOKING EQUIPMENT UNDER HOOD

COMBI OVEN



ALL DIMENSIONS IN mm
DO NOT SCALE - IF IN DOUBT ASK

AS1100
3RD ANGLE
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SCALE: 1/25

DATE: 3/08/2023

DRAWN: CONFIG 4.6

REVISION: 1

JOB No.: JB02882-K30

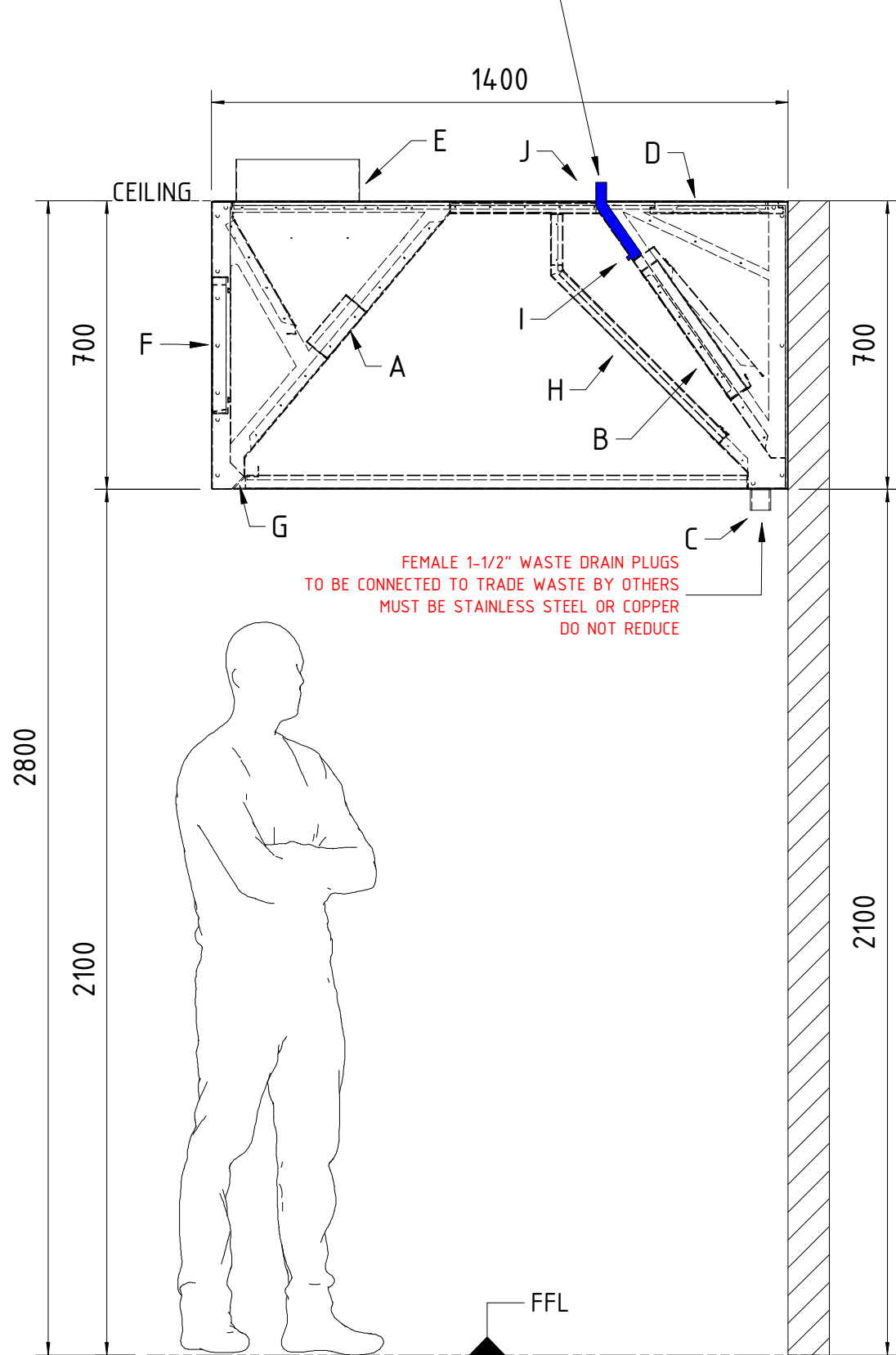
CLIENT: CHIPPERS, MANLY

DESCRIPTION: EXTRACTION HOOD ASSEMBLY

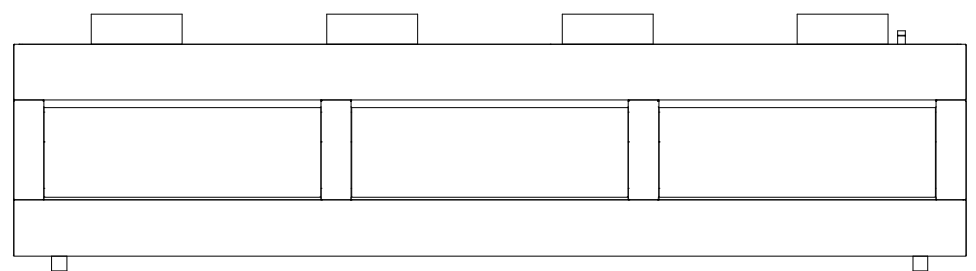
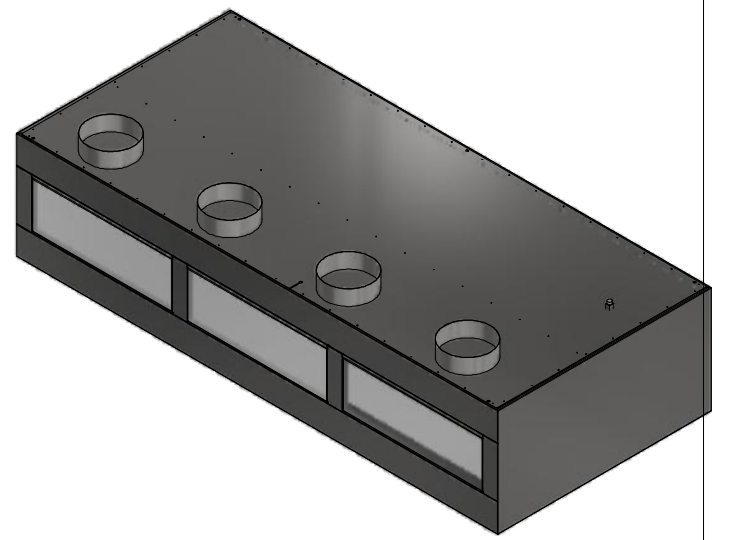
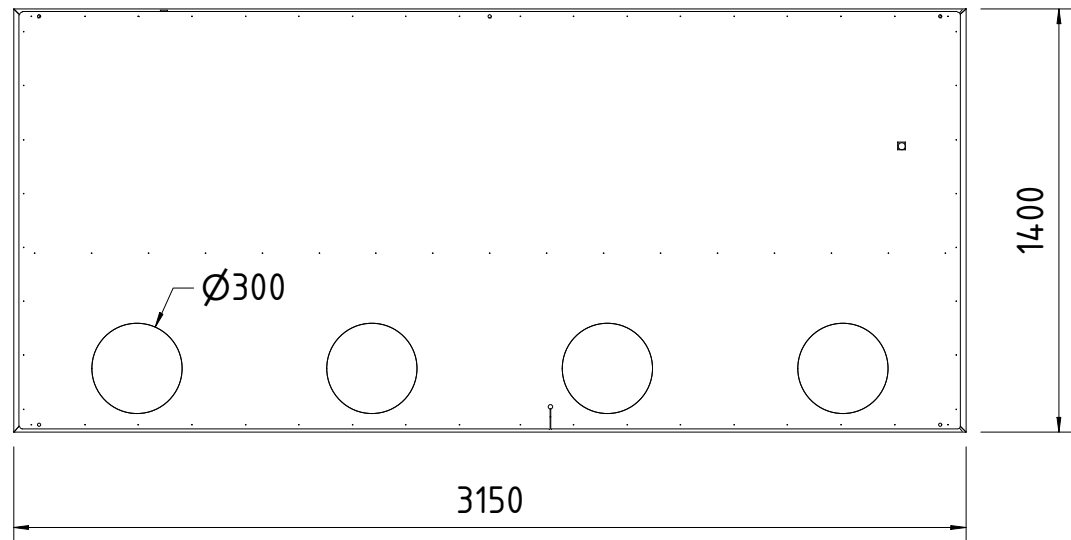
PART No.: EHA-JB02882-K30

A3

MALE 1/2" STAINLESS STEEL SUPPLY PIPE
SOLENOID TO BE INTERLOCK WITH KITCHEN EXHAUST FAN



FEMALE 1-1/2" WASTE DRAIN PLUGS
TO BE CONNECTED TO TRADE WASTE BY OTHERS
MUST BE STAINLESS STEEL OR COPPER
DO NOT REDUCE



SPIGOTS TO BE COORDINATED ONSITE

INTERNAL SLIDE DAMPER INSTALLED IN HOOD FOR BALANCING

10 AMP MALE PLUG LEAD ON TOP OF RANGEHOOD
CENTER OF EACH SECTION APPROX 300mm LONG LEAD

REMOVAL OF PLASTIC ON RANGEHOOD TO BE DONE BY CLEANER
UPON COMPLETION OF PROJECT

K35
HE 3150/1400/700

EXHAUST 1600L/S @ 150PA

SUPPLY 1000L/S @ 80PA

CAVALIER RANGEHOOD
- STAINLESS STEEL

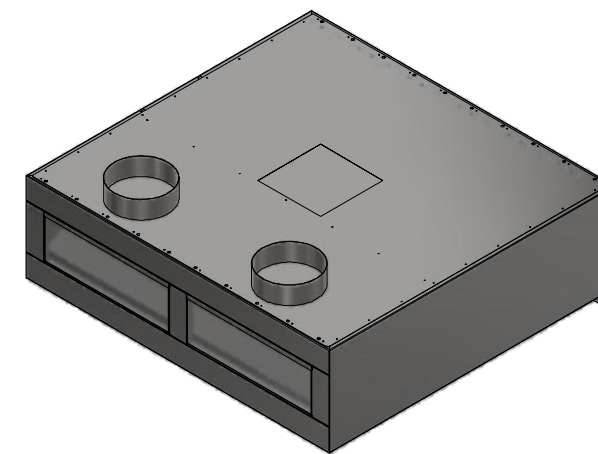
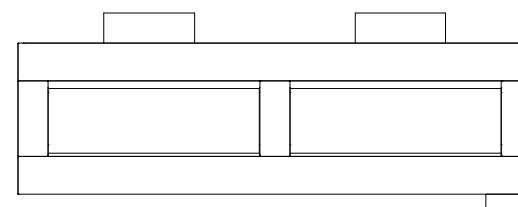
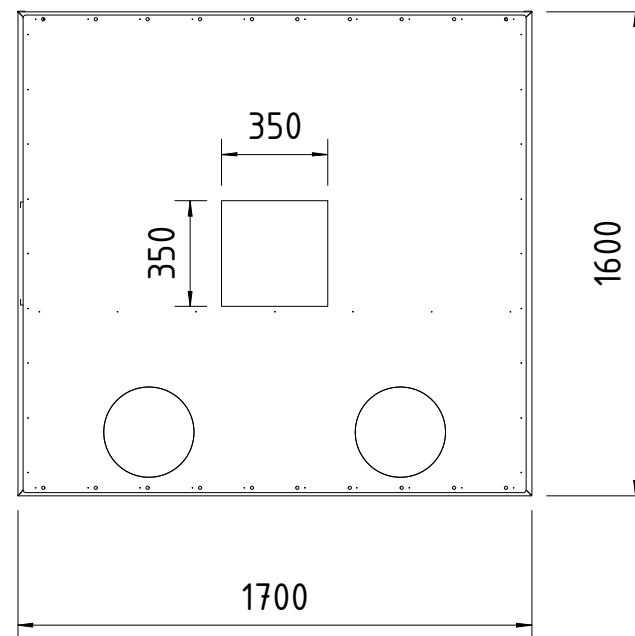
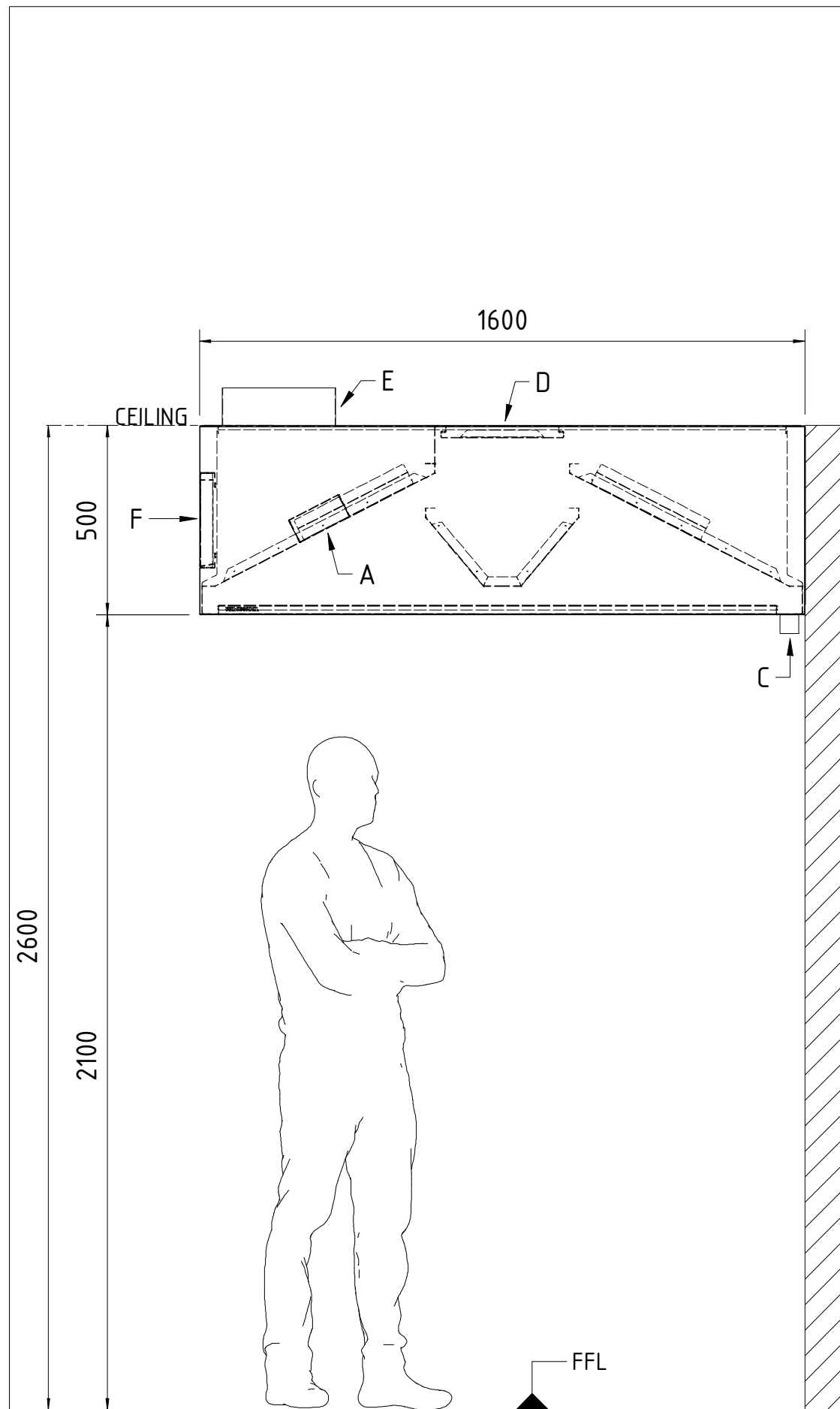
- A LED DOWNLIGHTS - QTY 3
- B STAINLESS STEEL BAFFLE FILTERS - QTY 6 (457x381)
- C 50mm WASTE DRAIN PLUG - QTY 2
- D BALANCING SLIDE DAMPER
- E SUPPLY SPIGOT - 300Ø
- F STAINLESS STEEL PERFORATED MESH
- G AIR INJECTION SLOTS
- H MISTING FLAME GUARD
- I MISTING SPRAY NIPPLES
- J MISTING SUPPLY PIPE WITH SOLENOID

COOKING EQUIPMENT UNDER HOOD

JOSPER GRILL
CHARCOAL GRILL



ALL DIMENSIONS IN mm DO NOT SCALE - IF IN DOUBT ASK	SCALE: 1/25	JOB No.: JB02882-K35
AS1100 3RD ANGLE PROJECTION	DATE: 3/08/2023	CLIENT: CHIPPERS, MANLY
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	REVISION: 1	PART No.: EHA-JB02882-K35



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INTERNAL SLIDE DAMPER INSTALLED IN HOOD FOR BALANCING

10 AMP MALE PLUG LEAD ON TOP OF RANGEHOOD
CENTER OF EACH SECTION APPROX 300mm LONG LEAD

REMOVAL OF PLASTIC ON RANGEHOOD TO BE DONE BY CLEANER
UPON COMPLETION OF PROJECT

K55
WCDS 1700/1600/500

EXHAUST 800L/S @ 60PA

SUPPLY 600L/S @ 60PA

CAVALIER RANGEHOOD
- STAINLESS STEEL

- A LED DOWNLIGHTS - QTY 2
- C WASTE DRAIN POT - QTY 1
- D BALANCING SLIDE DAMPER
- E SUPPLY SPIGOT - 300ø
- F STAINLESS STEEL PERFORATED MESH

COOKING EQUIPMENT UNDER HOOD

TRIPLE DECK PIZZA OVEN



ALL DIMENSIONS IN mm
DO NOT SCALE - IF IN DOUBT ASK

AS1100
3RD ANGLE
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SCALE: 1/25

DATE: 3/08/2023

DRAWN: CONFIG 4.6

REVISION: 1

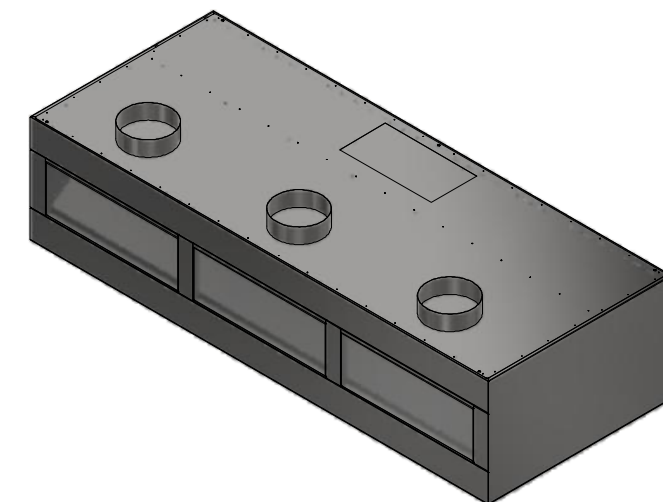
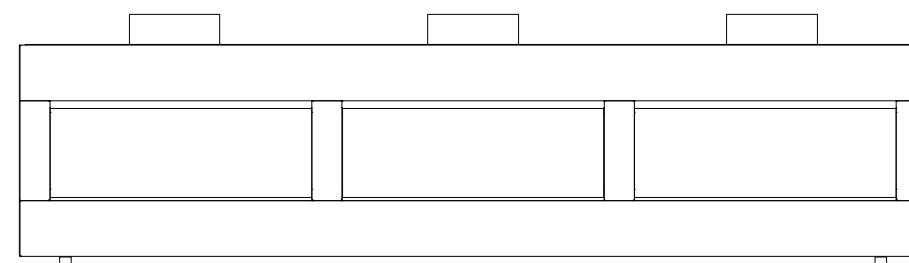
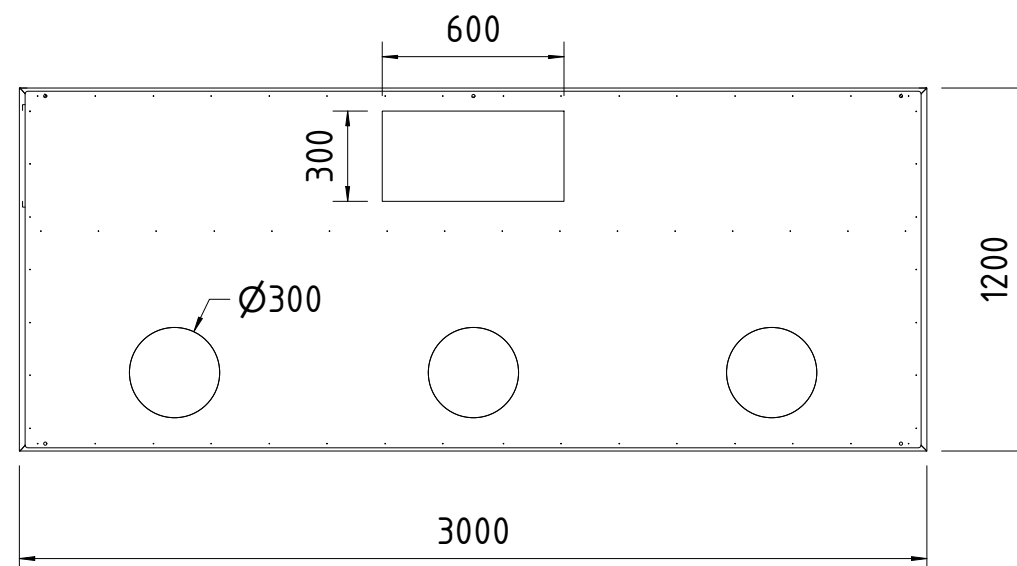
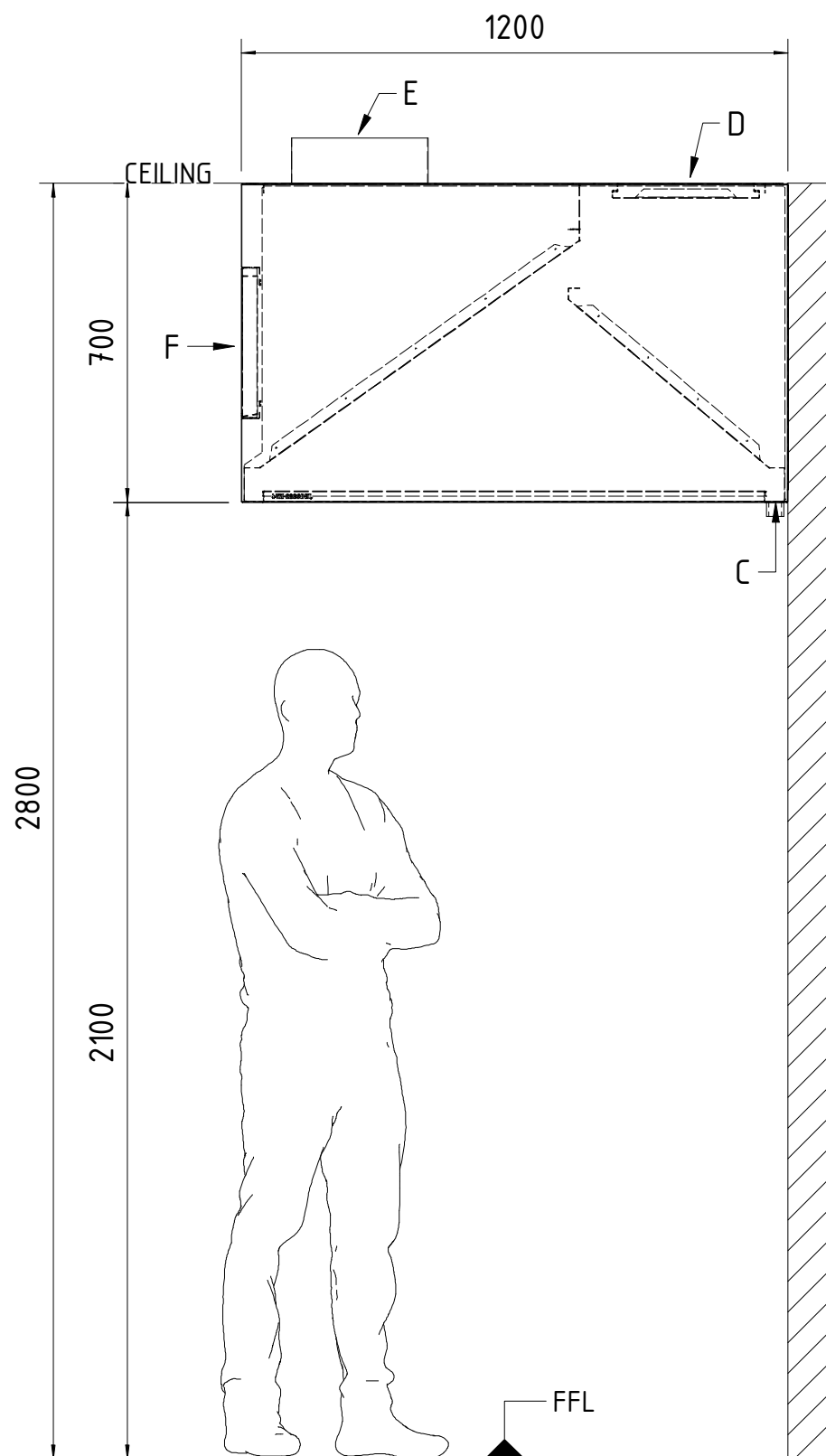
JOB No.: JB02882-K55

CLIENT: CHIPPERS, MANLY

DESCRIPTION: EXTRACTION HOOD ASSEMBLY

PART No.: EHA-JB02882-K55

A3



SPIGOTS TO BE COORDINATED ONSITE

INTERNAL SLIDE DAMPER INSTALLED IN HOOD FOR BALANCING

10 AMP MALE PLUG LEAD ON TOP OF RANGEHOOD
CENTER OF EACH SECTION APPROX 300mm LONG LEAD

REMOVAL OF PLASTIC ON RANGEHOOD TO BE DONE BY CLEANER
UPON COMPLETION OF PROJECT

K74
CDS 3000/1200/700

EXHAUST 1000L/S @ 60PA

SUPPLY 800L/S @ 60PA

CAVALIER RANGEHOOD
- STAINLESS STEEL

C 38mm WASTE DRAIN PLUG - QTY 2
D BALANCING SLIDE DAMPER
E SUPPLY SPIGOT 300ø

COOKING EQUIPMENT UNDER HOOD

CONVEYOR DISHWASHER



ALL DIMENSIONS IN mm
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SCALE: **1/25**

DATE: **3/08/2023**

DRAWN: **CONFIG 4.6**

REVISION: **1**

JOB No.: **JB02882-K74**

CLIENT: **CHIPPERS, MANLY**

DESCRIPTION: **EXTRACTION HOOD ASSEMBLY**

PART No.: **EHA-JB02882-K74**

A3



Represented by:
Fantech Pty. Ltd.
A.B.N. 11 005 434 024
8 Healey Circuit
Huntingwood NSW 2148
Telephone: +61 (02) 8811 0400
Facsimile: +61 (02) 9831 3676
E-mail: ftnew@fantech.com.au

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Technical Data - Fan Model HUD504

Location:

Designation: KEF-1

Performance - Required

Air Flow : 2650 L/s
Static Pressure : 150 Pa
Selection Pressure: 167 Pa
Installation Type: n/a
Air Density: 1.204 kg/m³
- Atmos. Temp: 20 °C
- Altitude: 0 m
- Humidity: 0.0 %

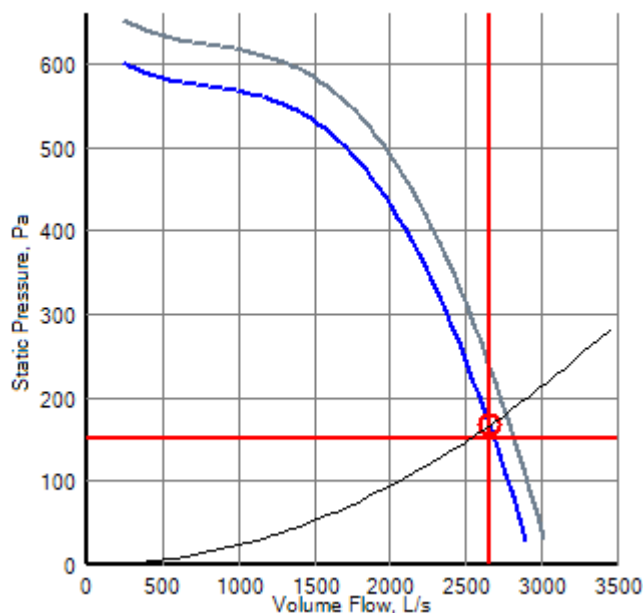
Actual

Air Flow: 2653 L/s
Static Pressure: 167 Pa
Total Pressure: 204 Pa

Fan Data

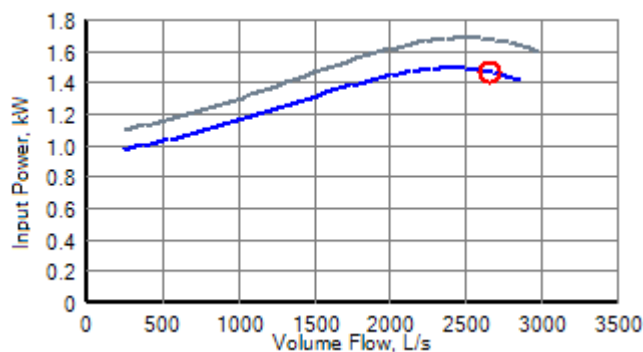
Catalogue Code: HUD504
Description: Heritage Ultra Series
Diameter: 500 mm
Impeller Type: Mixed Flow
Blade Material: -
Speed: 23 r/s @48 Hz
Power, Abs: 1.23 kW
Input Power: 1.47 kW
Efficiency Total: 43.9%
Fan Weight: 56.0 kg

Peak: 1.25 kW
Static: 36.0%
BAL: 29



Motor Data (at STP)

Motor Type:
Electrical Supply: 415V 3ph 50Hz
Motor Frame: D90L
Motor Power: 1.50kW
FLC/Start: 3.36A / 23.86A
Motor Speed: 4 pole
Motor Efficiency: 83.5%



Energy Efficiency, NCC/BCA Vol. 1, Section J compliant

+ 2010 - 2012, 2013 - 2016, 2019 - 2022

Energy Efficiency, H1/VM3 2021 compliant

+ H1/VM3 2021

Sound Data

Spectrum (Hz):	63	125	250	500	1K	2K	4K	8K	dBW	dB(A) @ 3m
Inlet (dB):	81	84	79	78	72	69	64	67	87	59
Outlet (dB):	81	91	85	83	79	74	70	67	93	64

Sound levels are quoted as free-field values. dB(A) values are average spherical free-field for comparative use only.
Sound levels for fans running at non-standard speeds are estimated.

Energy Sustainability Data

Hours Per Day:	10	Annual Electricity Cost (\$):	705.3
DaysPerYear:	300	Annual GH Gas (Tonnes):	6.5
CO2 per kWh (kg):	1.467	Annual Carbon Usage (Tonnes):	1.8
Cost per kWh (\$):	0.16		

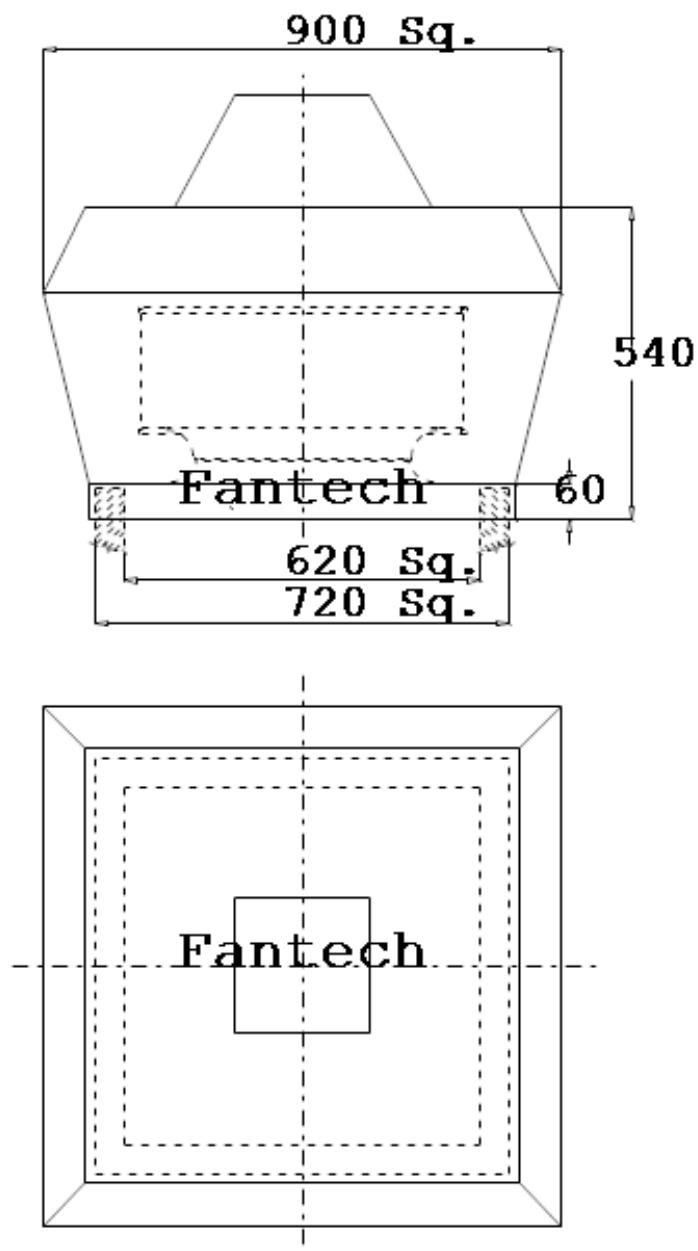


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Drawing for Fan Model HUD504

Location:

Designation: KEF-1





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Technical Data - Fan Model HUD454

Location:

Designation: KEF-2

Performance - Required

Air Flow : 1750 L/s
Static Pressure : 150 Pa
Selection Pressure: 158 Pa
Installation Type: n/a
Air Density: 1.204 kg/m³
- Atmos. Temp: 20 °C
- Altitude: 0 m
- Humidity: 0.0 %

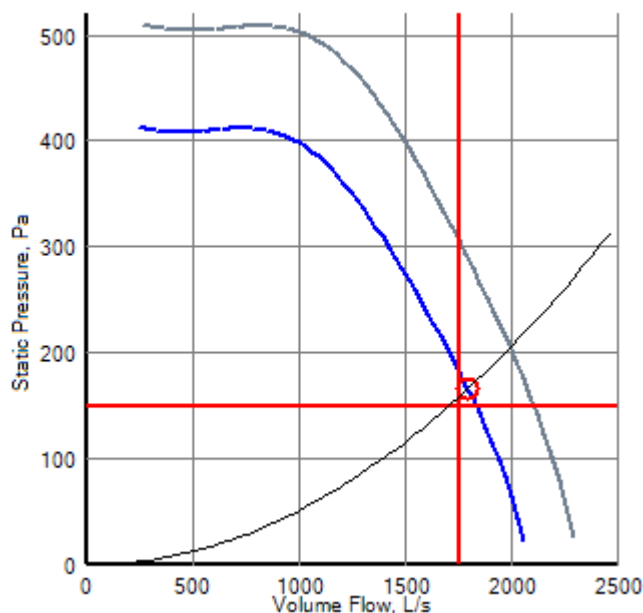
Actual

Air Flow: 1793 L/s
Static Pressure: 166 Pa
Total Pressure: 182 Pa

Fan Data

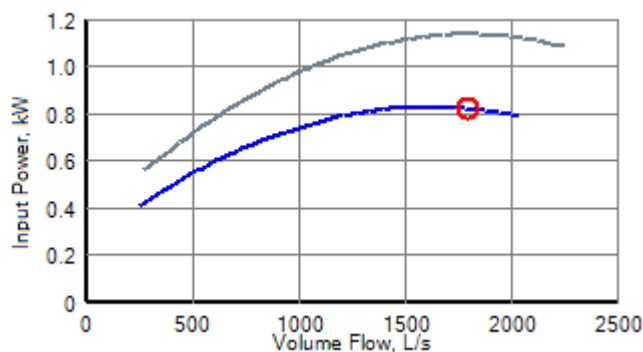
Catalogue Code: HUD454
Description: Heritage Ultra Series
Diameter: 450 mm
Impeller Type: Mixed Flow
Blade Material: -
Speed: 22 r/s @45 Hz
Power, Abs: 0.67 kW
Input Power: 0.82 kW
Efficiency Total: 49.0%
Fan Weight: 54.0 kg

Peak: 0.67 kW
Static: 44.8%
BAL: 29



Motor Data (at STP)

Motor Type:
Electrical Supply: 415V 3ph 50Hz
Motor Frame: D90S
Motor Power: 1.10kW
FLC/Start: 2.60A / 17.16A
Motor Speed: 4 pole
Motor Efficiency: 83.0%



Energy Efficiency, NCC/BCA Vol. 1, Section J compliant

+ 2010 - 2012, 2013 - 2016, 2015 - 2016 Carpark
+ 2019 - 2022

Energy Efficiency, H1/VM3 2021 compliant

+ H1/VM3 2021

Sound Data

Spectrum (Hz):	63	125	250	500	1K	2K	4K	8K	dBW	dB(A) @ 3m
Inlet (dB):	69	79	76	72	67	65	60	59	82	54
Outlet (dB):	76	81	77	77	75	72	67	59	85	59

Sound levels are quoted as free-field values. dB(A) values are average spherical free-field for comparative use only.
Sound levels for fans running at non-standard speeds are estimated.

Energy Sustainability Data

Hours Per Day:	10	Annual Electricity Cost (\$):	394.9
DaysPerYear:	300	Annual GH Gas (Tonnes):	3.6
CO2 per kWh (kg):	1.467	Annual Carbon Usage (Tonnes):	1.0
Cost per kWh (\$):	0.16		



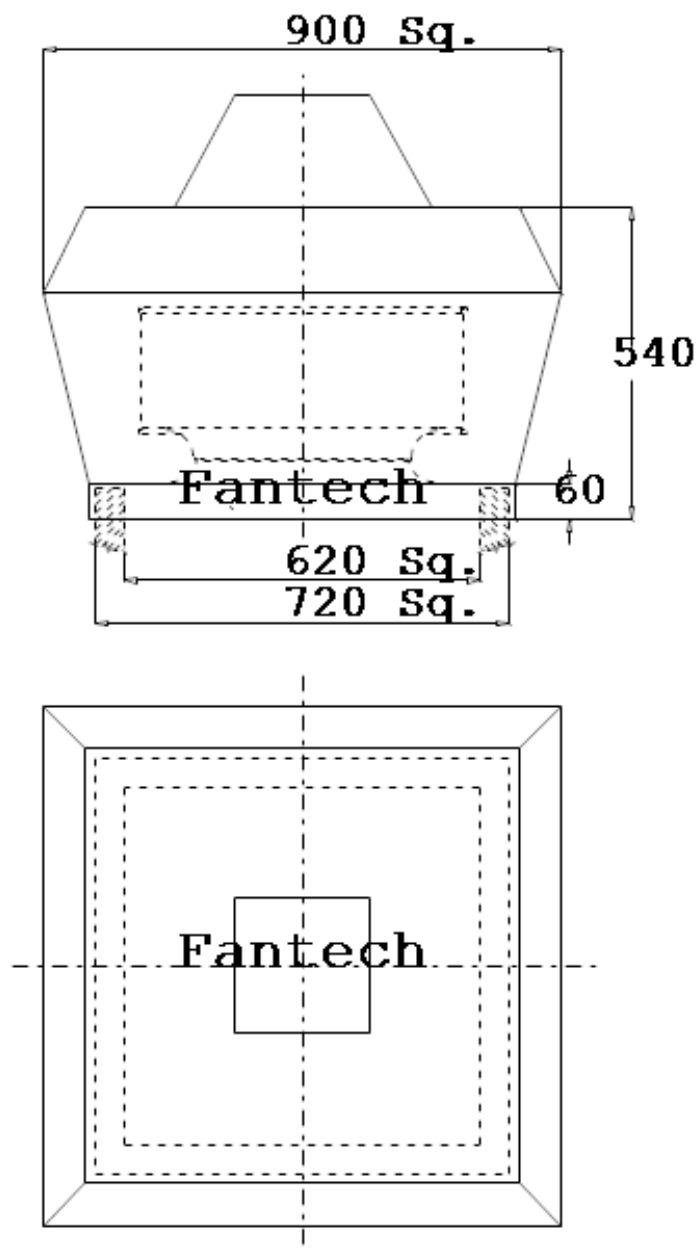
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Drawing for Fan Model HUD454

Location:

Designation: KEF-2





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Technical Data - Fan Model HUD504

Location:

Designation: KEF-3

Warning: Duty point is greater than fan performance.

Performance - Required

Air Flow : 1800 L/s
Static Pressure : 400 Pa
Selection Pressure: 400 Pa
Installation Type: n/a
Air Density: 1.204 kg/m³
- Atmos. Temp: 20 °C
- Altitude: 0 m
- Humidity: 0.0 %

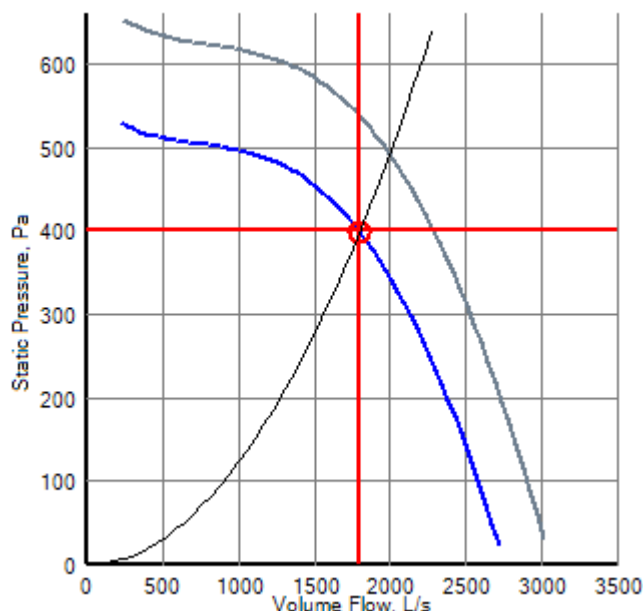
Actual

Air Flow: 1797 L/s
Static Pressure: 399 Pa
Total Pressure: 415 Pa

Fan Data

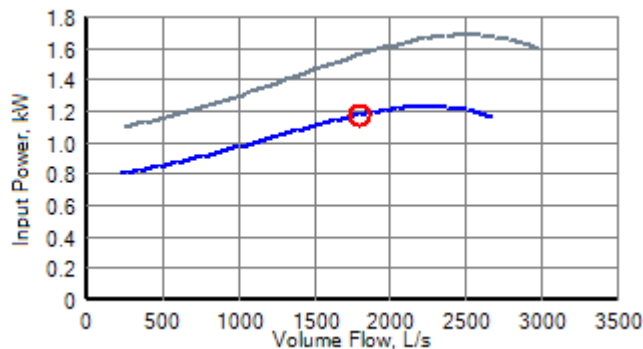
Catalogue Code: HUD504
Description: Heritage Ultra Series
Diameter: 500 mm
Impeller Type: Mixed Flow
Blade Material: -
Speed: 22 r/s @45 Hz
Power, Abs: 0.98 kW
Input Power: 1.18 kW
Efficiency Total: 75.8%
Fan Weight: 56.0 kg

Peak: 1.03 kW
Static: 72.8%



Motor Data (at STP)

Motor Type:
Electrical Supply: 415V 3ph 50Hz
Motor Frame: D90L
Motor Power: 1.50kW
FLC/Start: 3.36A / 23.86A
Motor Speed: 4 pole
Motor Efficiency: 83.8%



Energy Efficiency, NCC/BCA Vol. 1, Section J compliant

+ 2019 - 2022

Energy Efficiency, H1/VM3 2021 compliant

+ H1/VM3 2021

Sound Data

Spectrum (Hz):	63	125	250	500	1K	2K	4K	8K	dBW	dB(A) @ 3m
Inlet (dB):	79	82	77	76	70	67	62	65	85	57
Outlet (dB):	79	89	83	81	77	72	68	65	91	62

Sound levels are quoted as free-field values. dB(A) values are average spherical free-field for comparative use only.
Sound levels for fans running at non-standard speeds are estimated.

Energy Sustainability Data

Hours Per Day:	10	Annual Electricity Cost (\$):	564.7
DaysPerYear:	300	Annual GH Gas (Tonnes):	5.2
CO2 per kWh (kg):	1.467	Annual Carbon Usage (Tonnes):	1.4
Cost per kWh (\$):	0.16		

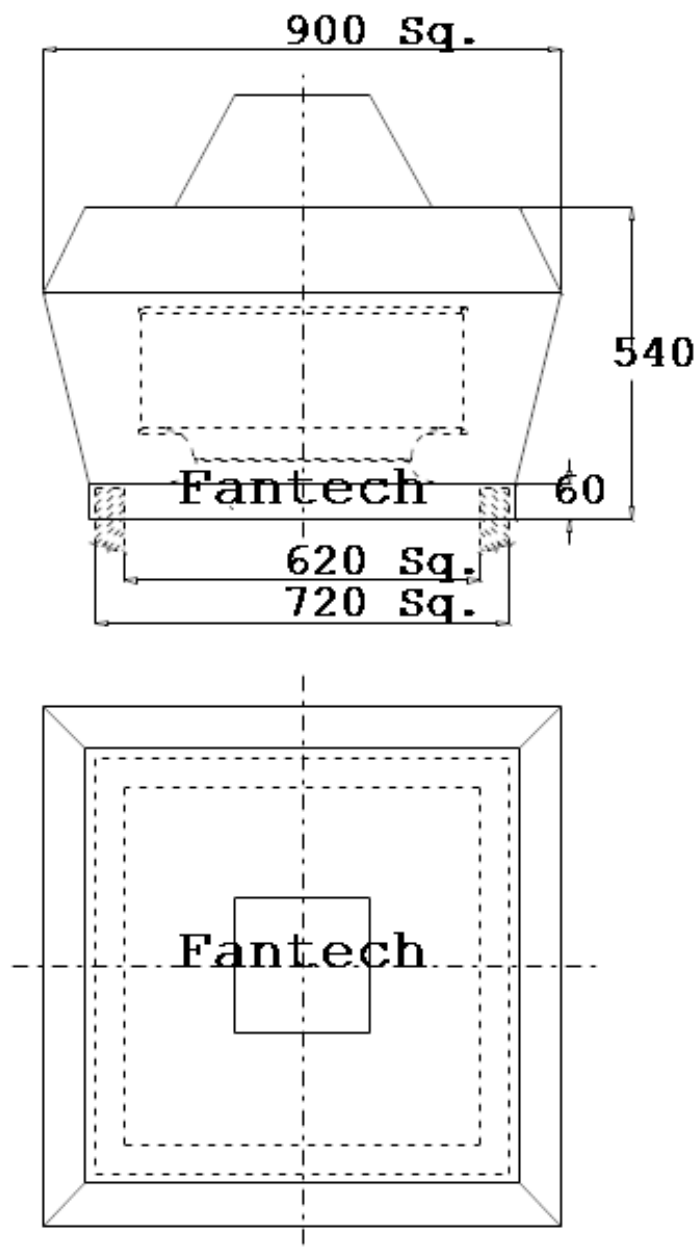


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Drawing for Fan Model HUD504

Location:

Designation: KEF-3





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Technical Data - Fan Model CE404V

Location:

Designation: KEF-4

Performance - Required

Air Flow : 650 L/s
Static Pressure : 100 Pa
Selection Pressure: 106 Pa
Installation Type: n/a
Air Density: 1.204 kg/m³
- Atmos. Temp: 20 °C
- Altitude: 0 m
- Humidity: 0.0 %

Actual

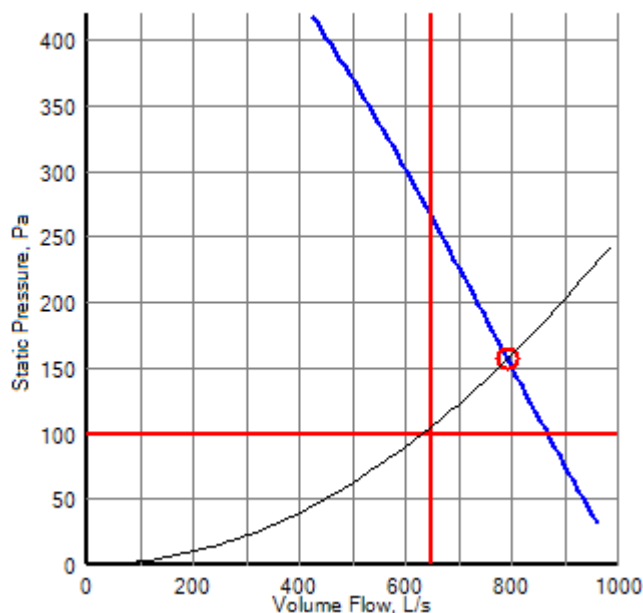
Air Flow: 792 L/s
Static Pressure: 157 Pa
Total Pressure: 184 Pa

22% additional capacity available

Fan Data

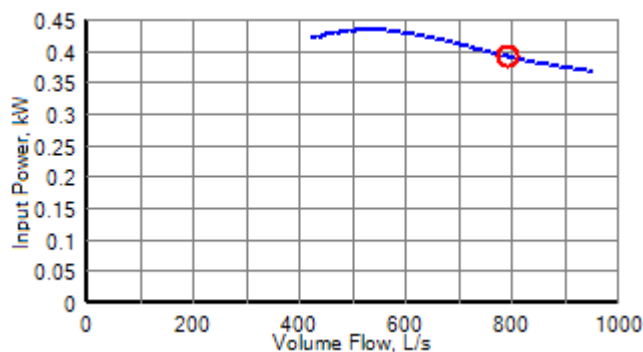
Catalogue Code: CE404V
Description: Gamma Vertical Series
Diameter: 400 mm
Impeller Type: Centrifugal
Blade Material: -
Speed: 21 r/s @50 Hz
Power, Abs: -
Input Power: 0.39 kW
Efficiency Total: -
Fan Weight: 18.0 kg

Peak: -
Static: -
BAL: 19



Motor Data (at STP)

Motor Type:
Electrical Supply: 240V 1ph 50Hz
Motor Frame:
Motor Power: 0.43kW
FLC/Start: 2.40A / 7.20A
Motor Speed: 4 pole
Motor Efficiency: -



Energy Efficiency, NCC/BCA Vol. 1, Section J compliant

+ 2019 - 2022

Energy Efficiency, H1/VM3 2021 compliant

+ H1/VM3 2021

Sound Data

Spectrum (Hz):	63	125	250	500	1K	2K	4K	8K	dBW	dB(A) @ 3m
Inlet (dB):	82	80	75	72	65	66	66	59	85	54

Sound levels are quoted as in-duct values. dB(A) values are average spherical free-field for comparative use only.

Energy Sustainability Data

Hours Per Day:	10	Annual Electricity Cost (\$):	188.3
DaysPerYear:	300	Annual GH Gas (Tonnes):	1.7
CO2 per kWh (kg):	1.467	Annual Carbon Usage (Tonnes):	0.5
Cost per kWh (\$):	0.16		



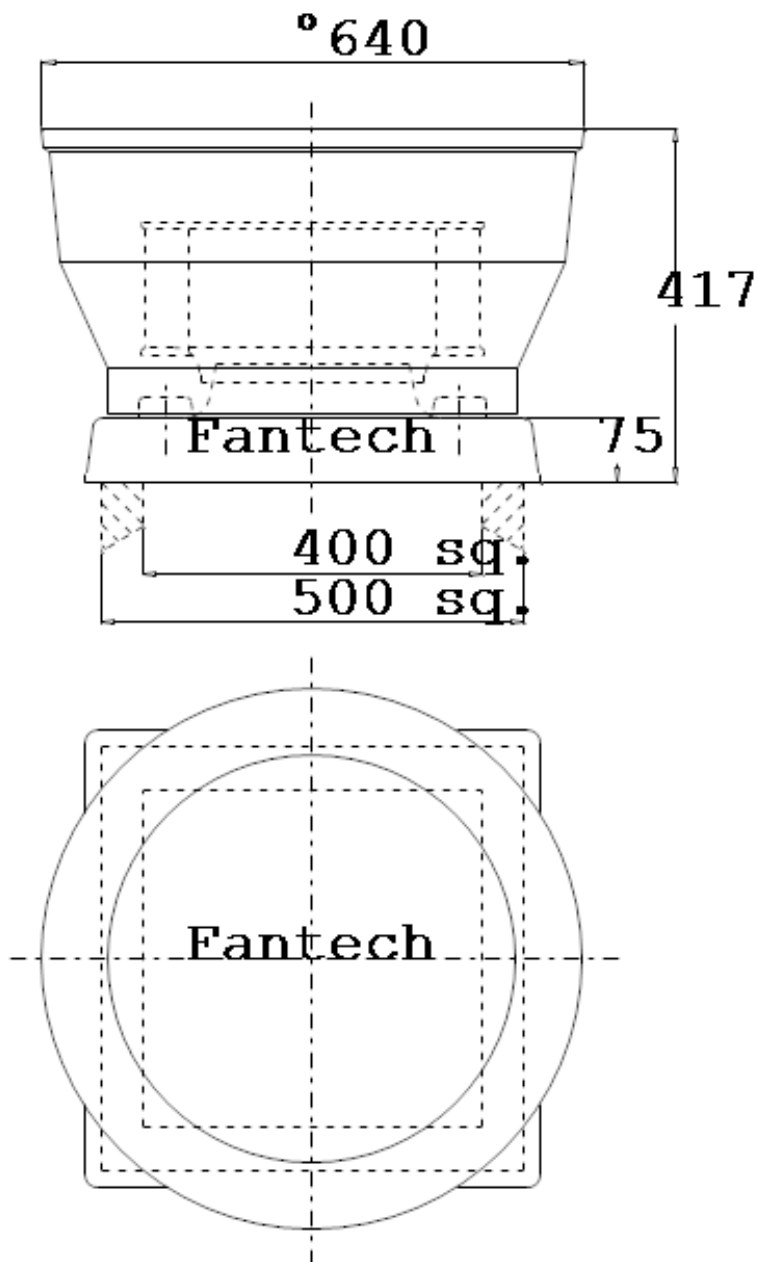
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Drawing for Fan Model CE404V

Location:

Designation: KEF-4





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Technical Data - Fan Model GUE404V

Location:

Designation: KEF-5

15% additional capacity available

Performance - Required

Air Flow : 1000 L/s
Static Pressure : 100 Pa
Selection Pressure: 104 Pa
Installation Type: n/a
Air Density: 1.204 kg/m³
- Atmos. Temp: 20 °C
- Altitude: 0 m
- Humidity: 0.0 %

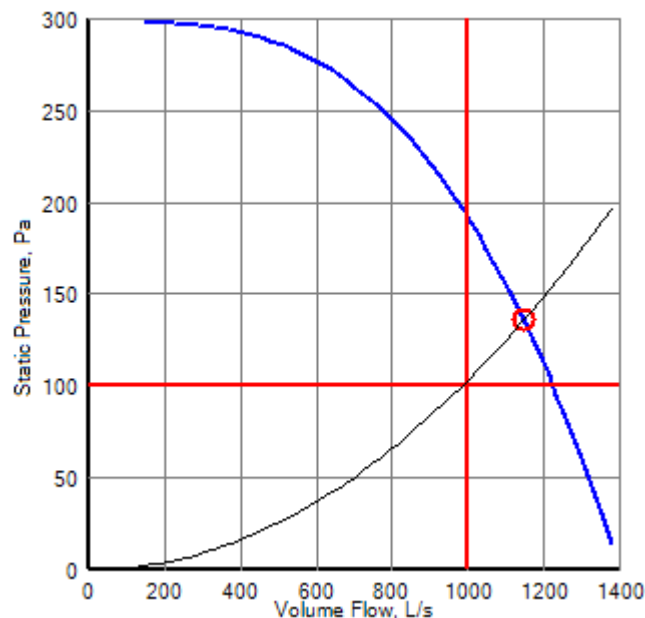
Actual

Air Flow: 1146 L/s
Static Pressure: 136 Pa
Total Pressure: 151 Pa

Fan Data

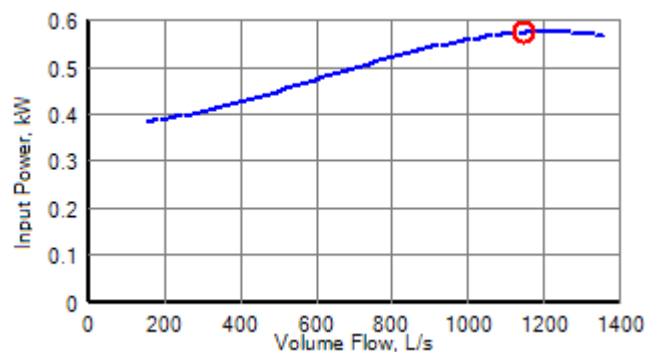
Catalogue Code: GUE404V
Description: Gamma Ultra - Vertical
Diameter: 400 mm
Impeller Type: Mixed Flow
Blade Material: -
Speed: 21 r/s @50 Hz
Power, Abs: -
Input Power: 0.57 kW
Efficiency Total: -
Fan Weight: 28.0 kg

Peak: -
Static: -
BAL: 19



Motor Data (at STP)

Motor Type:
Electrical Supply: 240V 1ph 50Hz
Motor Frame: 106
Motor Power: 0.58kW
FLC/Start (DOL): 2.60A / 5.98A
Motor Speed: 4 pole
Motor Efficiency: -



Energy Efficiency, NCC/BCA Vol. 1, Section J compliant

+ 2013 - 2016, 2019 - 2022

Energy Efficiency, H1/VM3 2021 compliant

+ H1/VM3 2021

Sound Data

Spectrum (Hz):	63	125	250	500	1K	2K	4K	8K	dBW	dB(A) @ 3m
Inlet (dB):	70	72	73	68	66	63	58	53	78	51
Outlet (dB):	66	76	79	72	72	67	61	54	82	56

Sound levels are quoted as free-field values. dB(A) values are average spherical free-field for comparative use only.

Energy Sustainability Data

Hours Per Day:	10	Annual Electricity Cost (\$):	275.0
DaysPerYear:	300	Annual GH Gas (Tonnes):	2.5
CO2 per kWh (kg):	1.467	Annual Carbon Usage (Tonnes):	0.7
Cost per kWh (\$):	0.16		



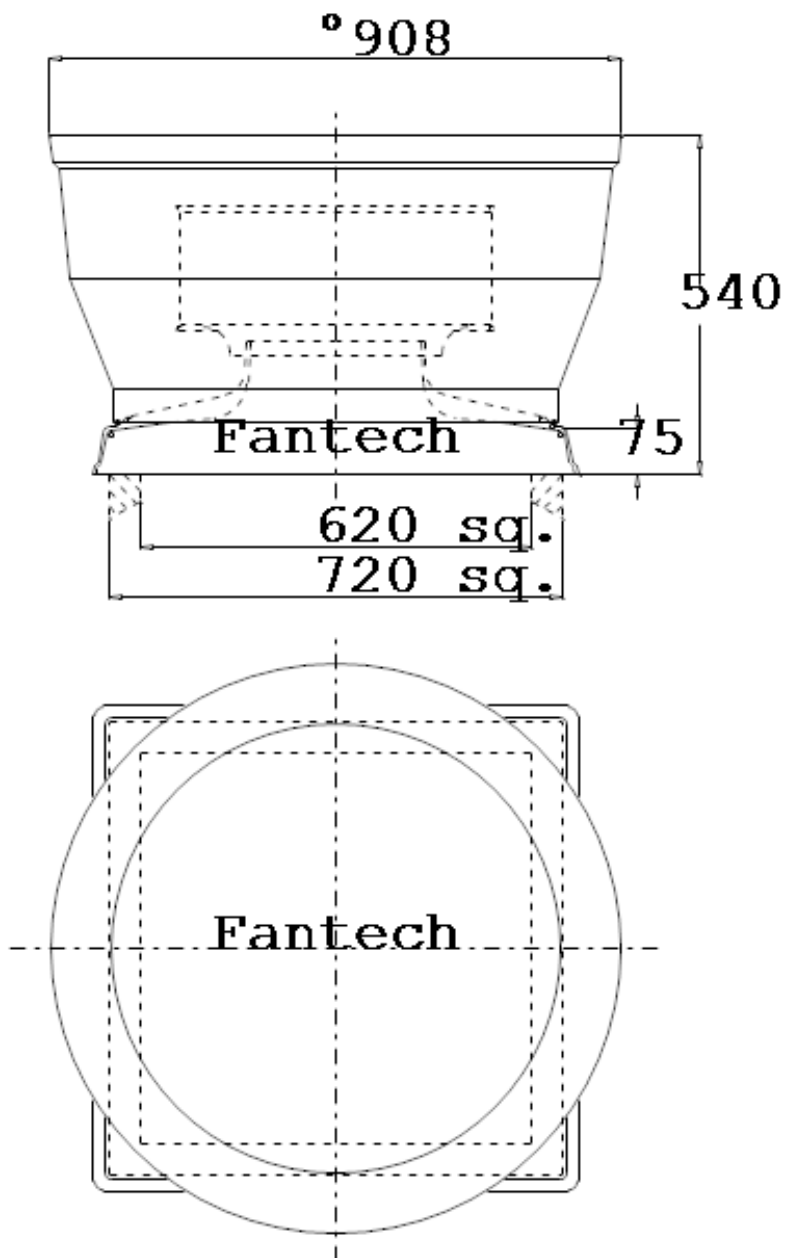
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Drawing for Fan Model GUE404V

Location:

Designation: KEF-5





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Technical Data - Fan Model CE404V

Location:

Performance - Required

Air Flow : 800 L/s
Static Pressure : 100 Pa
Selection Pressure: 100 Pa
Installation Type: n/a
Air Density: 1.204 kg/m³
- Atmos. Temp: 20 °C
- Altitude: 0 m
- Humidity: 0.0 %

Fan Data

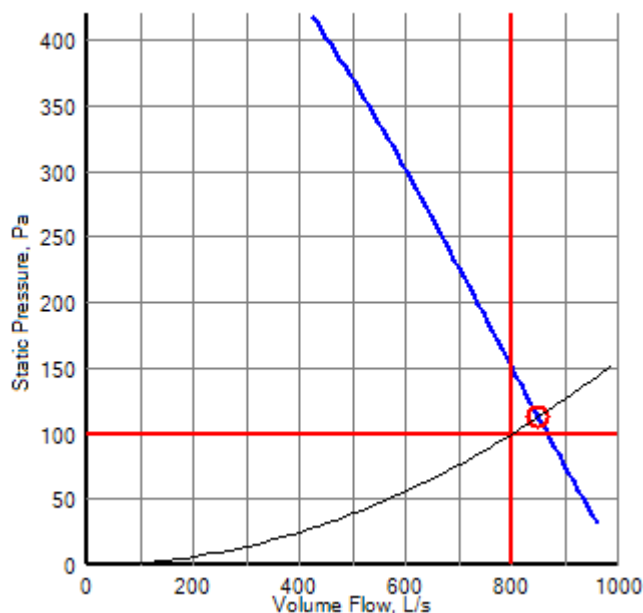
Catalogue Code: CE404V
Description: Gamma Vertical Series
Diameter: 400 mm
Impeller Type: Centrifugal
Blade Material: -
Speed: 21 r/s @50 Hz
Power, Abs: -
Input Power: 0.38 kW
Efficiency Total: -
Fan Weight: 18.0 kg

Actual

Air Flow: 850 L/s
Static Pressure: 113 Pa
Total Pressure: 144 Pa

Designation:

6% additional capacity available



Motor Data (at STP)

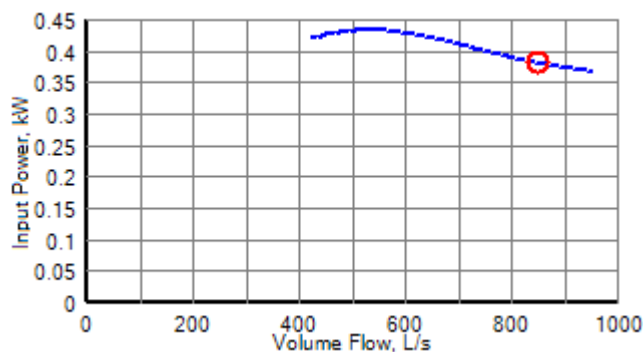
Motor Type:
Electrical Supply: 240V 1ph 50Hz
Motor Frame:
Motor Power: 0.43kW
FLC/Start: 2.40A / 7.20A
Motor Speed: 4 pole
Motor Efficiency: -

Energy Efficiency, NCC/BCA Vol. 1, Section J compliant

+ 2019 - 2022

Energy Efficiency, H1/VM3 2021 compliant

+ H1/VM3 2021



Sound Data

Spectrum (Hz):	63	125	250	500	1K	2K	4K	8K	dBW	dB(A) @ 3m
Inlet (dB):	82	80	75	72	65	66	66	59	85	54

Sound levels are quoted as in-duct values. dB(A) values are average spherical free-field for comparative use only.

Energy Sustainability Data

Hours Per Day:	10	Annual Electricity Cost (\$):	183.2
DaysPerYear:	300	Annual GH Gas (Tonnes):	1.7
CO2 per kWh (kg):	1.467	Annual Carbon Usage (Tonnes):	0.5
Cost per kWh (\$):	0.16		



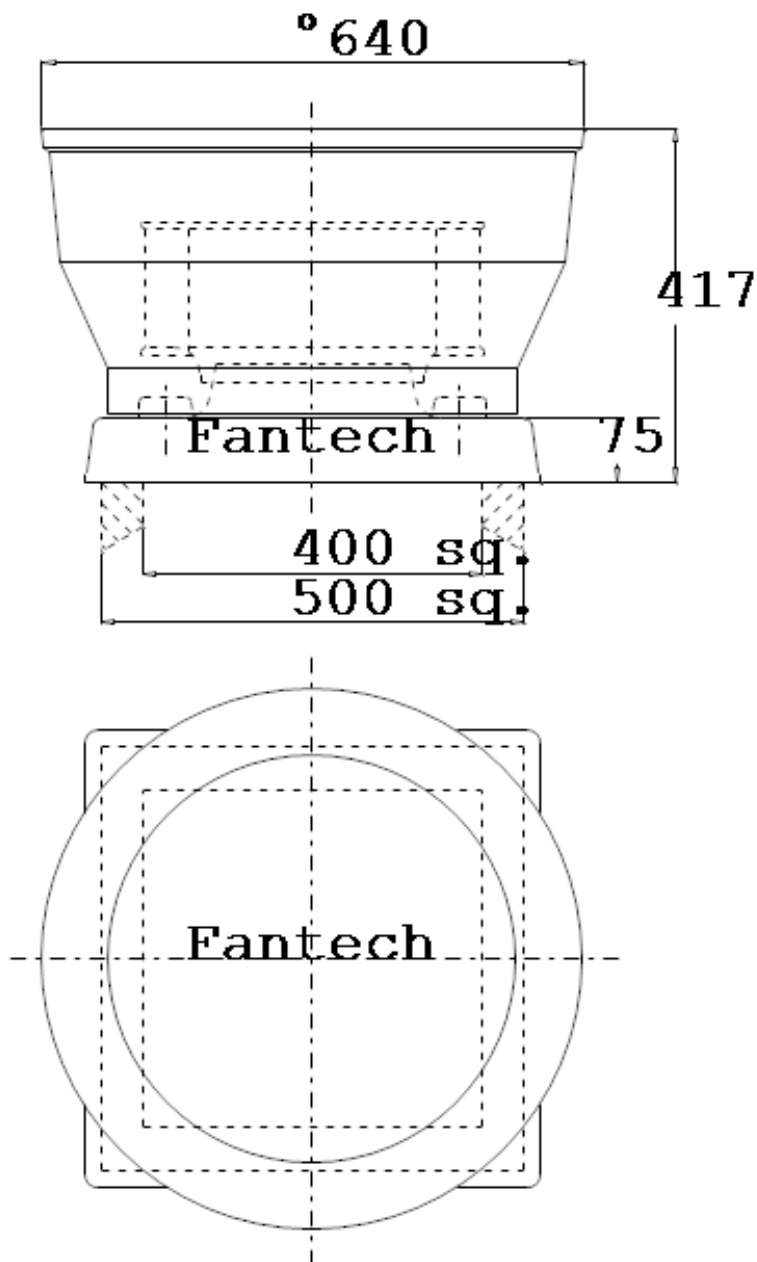
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8 Healey Circuit
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Telephone: +61 (02) 8811 0400
Facsimile: +61 (02) 9831 3676
E-mail: ftnew@fantech.com.au

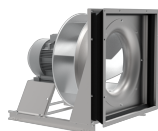
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Drawing for Fan Model CE404V

Location:

Designation:

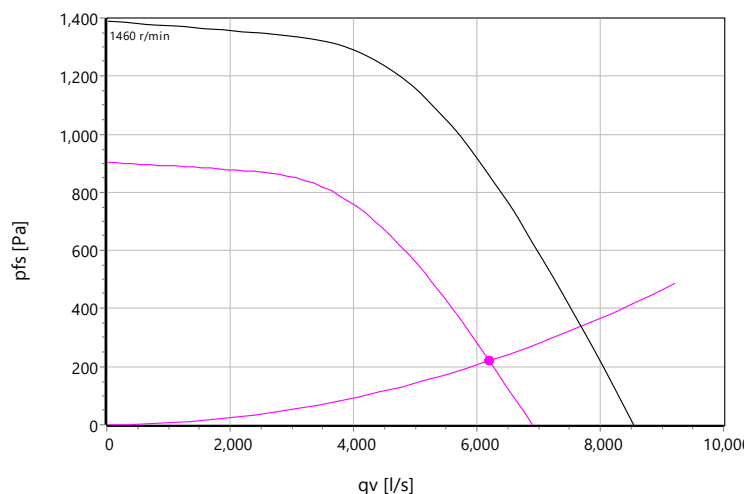




Type: **DKNB 710-4KW.219.A13**

Part no.:

Curve:



ρ : 1.15 kg/m³

Operating Point:

q_V	6200	l/s
p_{fs}	220	Pa
p_{fd}	91	Pa
$\eta_{e,fs}$	33.5	%
$\eta_{e,tot}$	47.3	%
P_e	4.07	kW
P_o	3.68	kW
n	1178	r/min
$L_{WA, AIN}$	92	dB(A)
f_{FU}	39.8	Hz
v	12.55	m/s
SFP	656	Ws/m ³
$f_{FU (max)}$	47	Hz
$P_{Düse}$	2092	Pa

Nominal Data:

U [V]	f [Hz]	C [μF]	P _o [KW]	I _N [A]	n _N [r/min]	t _R [°C]	k ₁₀ [m ² s/h]	I _A / I _N	IP	m [kg]
400D / 690Y	50	-	7.5	14.3	1460	40	370	-	IP55	164

Motor Data:

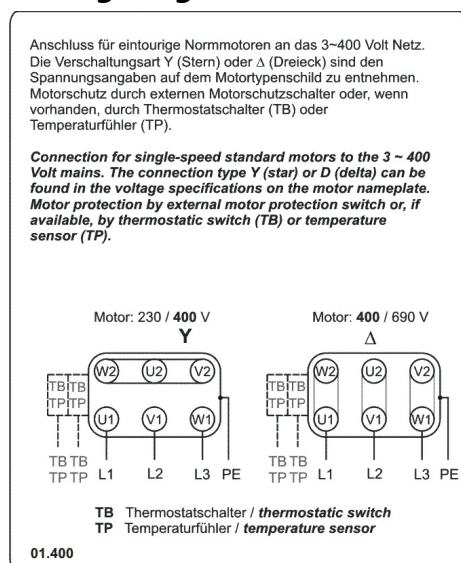
Part no.	Manufacturer	Size	Poles	Eff.-Rating	Design	Mot.Prot.	η [%]	Ø [mm]
MCDU13202011	AC	132	4	IE3	B3	KL	0.904	38

Sound Data:

Frequency	Σ	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Distances	1 m	4 m
LwA(A,in) [dB(A)]	92	63	77	79	84	90	82	76	67	LpA(A,in) [dB(A)]	85	75
LwA(A,out) [dB(A)]	95	67	79	82	87	93	85	79	69	LpA(A,out) [dB(A)]	88	78

Wiring Diagram:

Drawing:





Represented by:
Fantech Pty. Ltd.
A.B.N. 11 005 434 024
8 Healey Circuit
Huntingwood NSW 2148
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Facsimile: +61 (02) 9831 3676
E-mail: ft NSW@fantech.com.au

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Technical Data - Fan Model TD-500/150 (Hi speed)

Location:

Designation:

Please Note: Data shown is nominal - enter more criteria for accurate detail.

Performance - Required

Air Flow : 0 L/s
Static Pressure : 0 Pa
Selection Pressure: 0 Pa
Installation Type: n/a
Air Density: 1.204 kg/m³
- Atmos. Temp: 20 °C
- Altitude: 0 m
- Humidity: 0.0 %

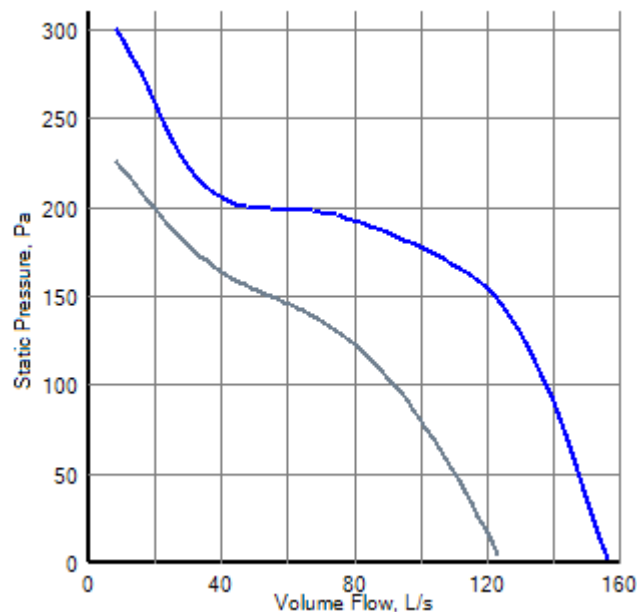
Actual

Air Flow: 0 L/s
Static Pressure: 0 Pa
Total Pressure: 0 Pa

Fan Data

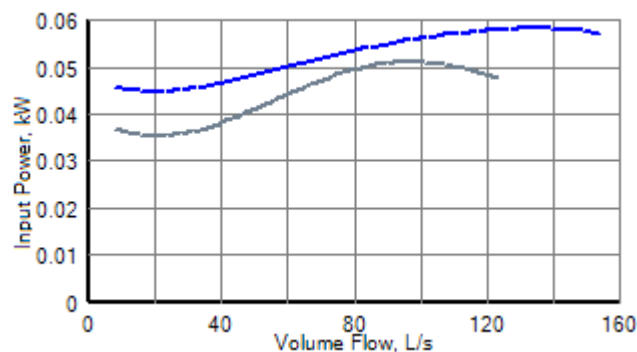
Catalogue Code: TD-500/150 (Hi speed)
Description: Mixvent Series
Diameter: 150 mm
Impeller Type: Mixed Flow
Blade Material: -
Speed: 42 r/s @50 Hz
Power, Abs: -
Input Power: 0.05 kW
Efficiency Total: -
Fan Weight: 2.7 kg

Peak: -
Static: -



Motor Data (at STP)

Motor Type:
Electrical Supply: 240V 1ph 50Hz
Motor Frame:
Motor Power: 0.05kW
FLC/Start: 0.22A / 0.66A
Motor Speed: 2 pole
Motor Efficiency: -



Energy Efficiency, NCC/BCA Vol. 1, Section J compliant

+ 2019 - 2022

Energy Efficiency, H1/VM3 2021 compliant

+ H1/VM3 2021

Sound Data

Spectrum (Hz):	63	125	250	500	1K	2K	4K	8K	dBW	dB(A) @ 3m
Inlet (dB):	58	51	64	60	59	63	57	47	69	46

Sound levels are quoted as free-field values. dB(A) values are average spherical free-field for comparative use only.

Energy Sustainability Data

Hours Per Day:	10	Annual Electricity Cost (\$):	23.2
DaysPerYear:	300	Annual GH Gas (Tonnes):	0.2
CO2 per kWh (kg):	1.467	Annual Carbon Usage (Tonnes):	0.1
Cost per kWh (\$):	0.16		



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Drawing for Fan Model TD-500/150

Location:

Designation:

