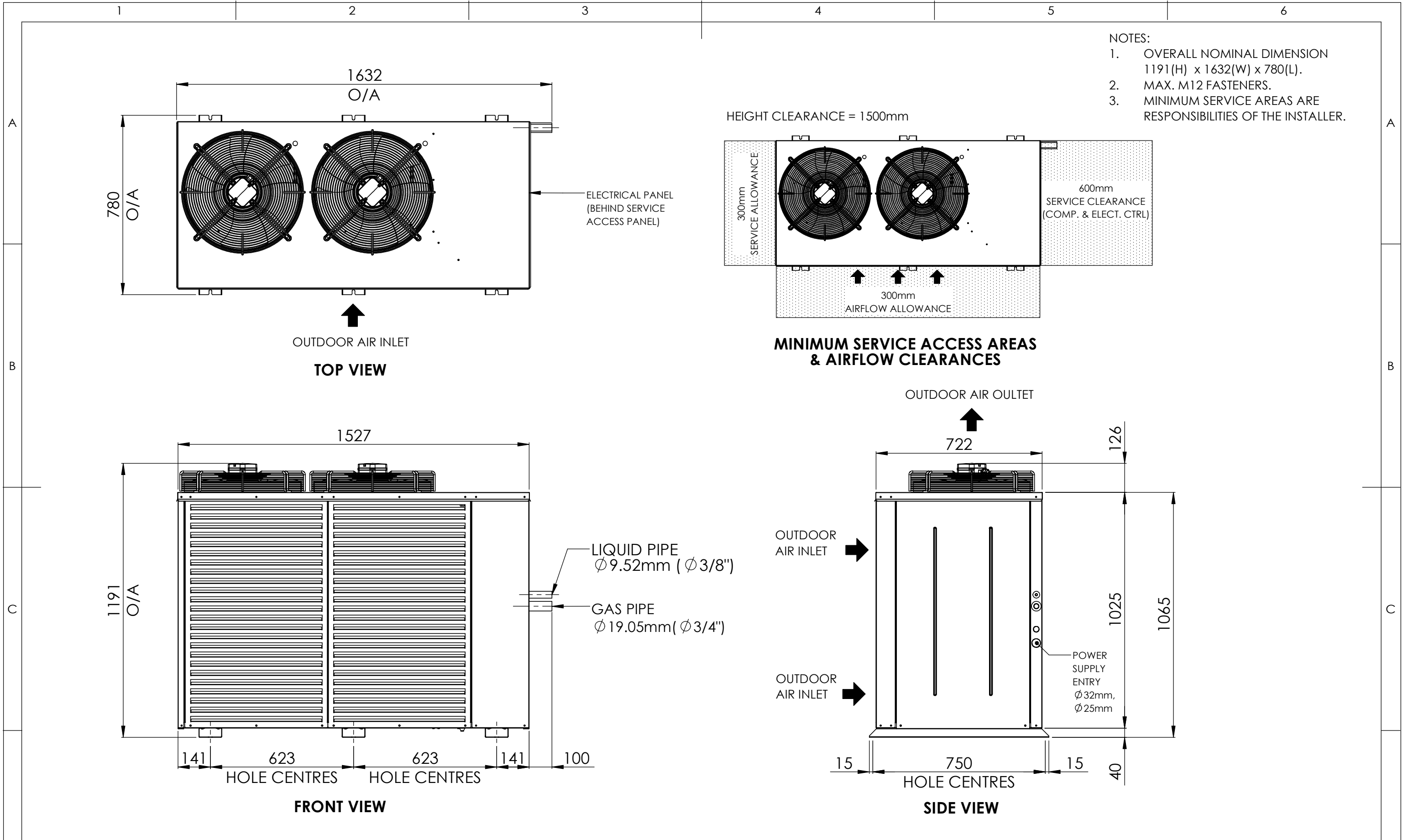
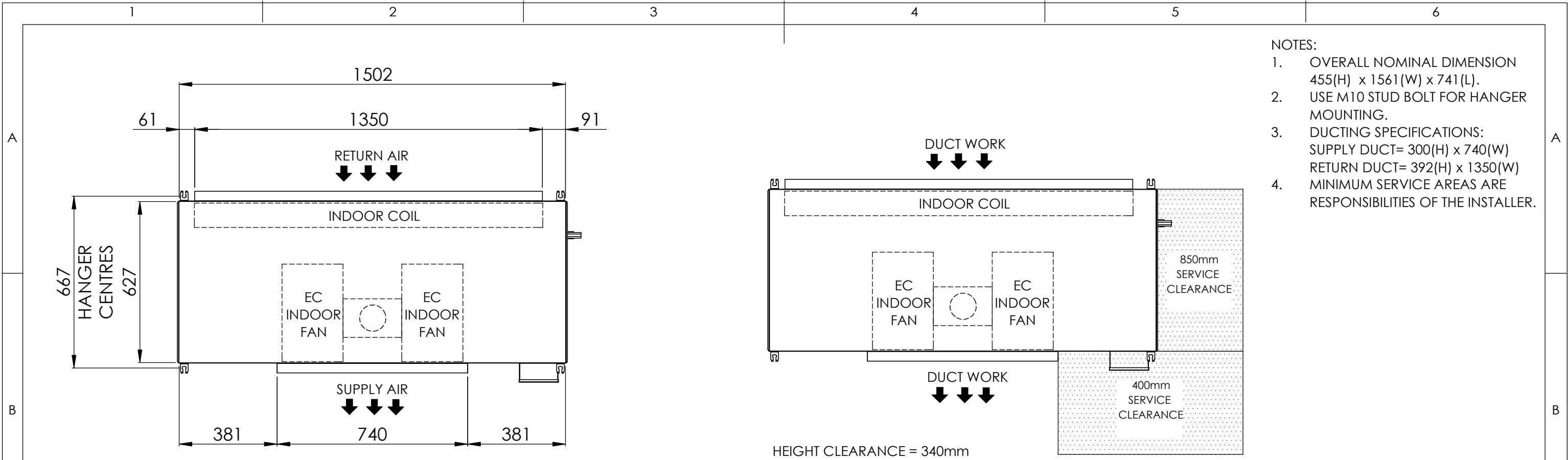
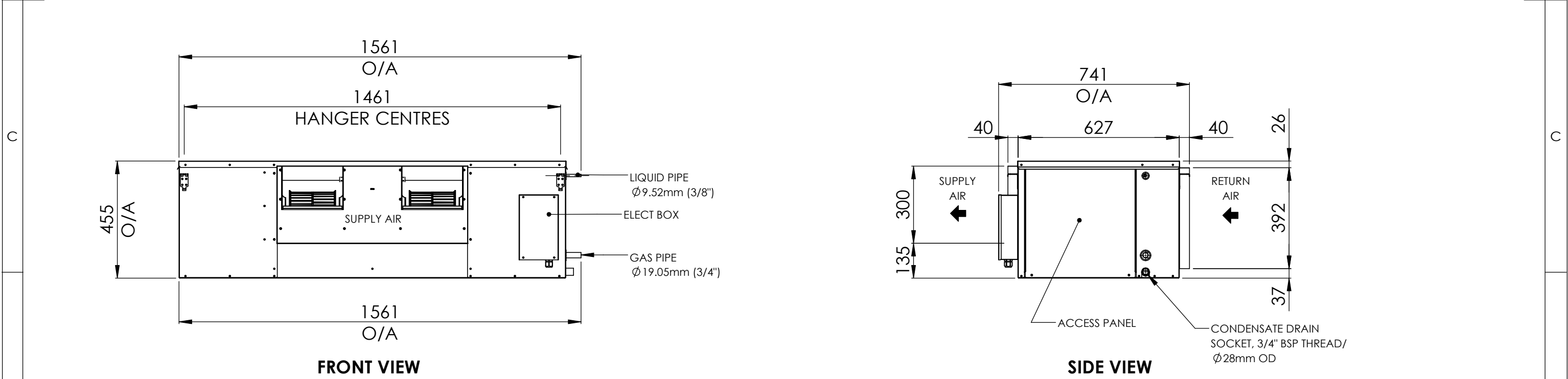




D									DESCRIPTION : GENERAL ARRANGEMENT, S020-023OVR3SA-L-S, S020-023OVC3SA-L-S			DRAWING No. : GAD000252		REV : A		D
	TOLERANCE : 0 < LENGTH ≤ 400 ± 1mm 400 < LENGTH ≤ 1000 ± 2mm 1000 < LENGTH ± 3mm ANGLE ±1°		NOTE : LENGTHS IN MILLIMETRES AND ANGLES IN DEGREES UNLESS SPECIFIED OTHERWISE.													
	A	FIRST ISSUE					HLM	24/06/22	N/A	DRAWN BY : HALIM	DRAWN DATE : 24/06/22	APPROVED BY : CM	SCALE : N.T.S	SHEET : 1 OF 1  THIRD ANGLE PROJECTION	A3	
	REV	DESCRIPTION			PCN	BY	DATE	ZONE								



- NOTES:
1. OVERALL NOMINAL DIMENSION 455(H) x 1561(W) x 741(L).
 2. USE M10 STUD BOLT FOR HANGER MOUNTING.
 3. DUCTING SPECIFICATIONS:
SUPPLY DUCT= 300(H) x 740(W)
RETURN DUCT= 392(H) x 1350(W)
 4. MINIMUM SERVICE AREAS ARE RESPONSIBILITIES OF THE INSTALLER.



D								DESCRIPTION : GENERAL ARRANGEMENT, S020-023ILR1SA-F-S, S020-023ILC1SA-F-S			DRAWING No. : GAD000387		REV : A	D
	TOLERANCE : 0 < LENGTH ≤ 400 ± 1mm 400 < LENGTH ≤ 1000 ± 2mm 1000 < LENGTH ± 3mm ANGLE ±1°		NOTE : LENGTHS IN MILLIMETRES AND ANGLES IN DEGREES UNLESS SPECIFIED OTHERWISE.											
	A	FIRST ISSUE				HALIM	24/06/22	N/A	DRAWN BY : HALIM	DRAWN DATE : 24/06/22	APPROVED BY : CM	SCALE : N.T.S		
	REV	DESCRIPTION			PCN	BY	DATE	ZONE				SHEET : 1 OF 1	 THIRD ANGLE PROJECTION	A3

TECHNICAL DATA SHEET

TECHNICAL DATA SHEET							
MODEL NUMBER		Indoor	S012ILC1SA-F-S	S015ILC1SA-F-S	S018ILC1SA-F-S	S020ILC1SA-F-S	S023ILC1SA-F-S
		Outdoor	S012OVC3SA-L-S	S015OVC3SA-L-S	S018OVC3SA-L-S	S020OVC3SA-L-S	S023OVC3SA-L-S
OUTDOOR SECTION	CAPACITY						
	Cooling	kW TOTAL*	11.38	16.01	18.74	20.53	22.40
		kW SENSIBLE*	9.33	12.51	14.78	15.88	18.24
		EER (kW / ikW)*	3.45	3.84	3.79	3.60	3.33
	CAPACITY STEPS (%)		0/100	0/100	0/100	0/100	0/100
	COMPRESSOR						
	TYPE		SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
	STARTER TYPE		D.O.L (Opt Soft/Start)	D.O.L (Opt Soft/Start)	D.O.L (Opt Soft/Start)	D.O.L (Opt Soft/Start)	D.O.L (Opt Soft/Start)
	PHASE		3Ø	3Ø	3Ø	3Ø	3Ø
	No. OFF		1	1	1	1	1
	PROTECTION DEVICES		HP SWITCH, LP SWITCH, INTERNAL THERMAL CUTOUT				
	ALL COMPRESSORS HAVE		SUMP HEATER				
	FAN						
	TYPE		AXIAL	AXIAL	AXIAL	AXIAL	AXIAL
	ikW (MAX INPUT)		0.19	0.19	0.19	0.27	0.27
	PHASE		1Ø	1Ø	1Ø	1Ø	1Ø
	No. OFF		2	2	2	2	2
	FAN SPEED CONTROL		2 SPEED VIA CAPACITOR	2 SPEED VIA CAPACITOR	2 SPEED VIA CAPACITOR	2 SPEED VIA CAPACITOR	2 SPEED VIA CAPACITOR
	HEAT EXCHANGER						
	TYPE		ALU / CU COIL	ALU / CU COIL	ALU / CU COIL	ALU / CU COIL	ALU / CU COIL
	NOM. AIRFLOW l/s		-	-	-	-	-
	REFRIGERANT SYSTEM						
	TYPE		R410A				
	FACTORY CHARGE PER CIRCUIT (KG)		3.95	5.3	5.7	7.3	6.8
	No. OF CIRCUITS		1	1	1	1	1
	REFRIGERANT CONTROL		TXV				
	DIMENSIONS						
	H X W X D (mm)		1214 X 1550 X 750			1314 x 1750 x 850	
	WEIGHT						
	OPERATING KG		146	158	165	190	190
	SHIPPING KG		177	189	196	226	226
	ELECTRICAL						
	POWER SUPPLY		415v / 3Ø / 50hz				
	FLA / RLA (Amps)		9.7 / 6.5	12 / 7.7	12.7 / 9.3	17.4 / 11	17.4 / 13.1
INDOOR SECTION	FAN						
	TYPE		TWIN DECK BLOWER	TWIN DECK BLOWER	TWIN DECK BLOWER	TWIN DECK BLOWER	TWIN DECK BLOWER
	ikW (MAX INPUT)		0.63	0.63	0.63	0.96	0.96
	PHASE		1Ø	1Ø	1Ø	1Ø	1Ø
	No. OFF		1	1	1	1	1
	FAN SPEED CONTROL		VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED
	HEAT EXCHANGER						
	TYPE		ALU / CU COIL	ALU / CU COIL	ALU / CU COIL	ALU / CU COIL	ALU / CU COIL
	NOM. AIRFLOW l/s		625	835	875	990	1120
	EXT STATIC pa		100				
	DIMENSIONS						
	H X W X D (mm)		567 x 1550 x 750			578 x 1750 x 850	
	WEIGHT						
	OPERATING KG		44	48	48	65	65
	SHIPPING KG		71	75	75	102	102
	ELECTRICAL						
POWER SUPPLY		415v / 3Ø / 50hz					
FLA / RLA (Amps)		4.4 / 2.1	4.4 / 3.8	4.4 / 4	5.9 / 4.2	5.9 / 4.8	
COMBINED SECTIONS	ELECTRICAL						
	H.P. CUT OUT / IN kPa		4500 / 3450	4500 / 3450	4500 / 3450	4500 / 3450	4500 / 3450
	L.P. CUT OUT / IN kPa		175 / 345	175 / 345	175 / 345	175 / 345	175 / 345
	NOM. R.L.A. (TOTAL SYSTEM)		8.6	11.5	13.3	15.2	17.9
	MAX. F.L.A. (TOTAL SYSTEM)		14.1	16.4	17.1	23.3	23.3
	GENERAL						
	CABINET		GALVANISED SHEET STEEL				
	INSULATION		12MM ALUMINIUM FOIL FACED POLYETHYLENE ACOUSTIC INSULATION				
	EXTERNAL FINISH		POLYESTER POWDER COAT - COLOUR LIGHT GREY AS STANDARD - OPTIONS AVAILABLE				
	INDOOR AND OUTDOOR PIPE CONNECTION						
	LIQUID mm (inch)		9.5 (3/8")	9.5 (3/8")	9.5 (3/8")	9.5 (3/8")	9.5 (3/8")
	GAS mm (inch)		19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	22.2 (7/8")	22.2 (7/8")
	ADDITIONAL REFRIGERATION CHARGE AND FIELD PIPING CONNECTIONS						
	REFER TO INSTALLATION AND OPERATION MANUAL						
NOISE LEVELS [Based on condenser fan's sound data]							
SOUND POWER db(A)		61.7	61.7	61.7	66.6	66.6	

Note: Rated in accordance with AHRI 210/240 or 340/360
Performance excludes iKW of indoor fan motor
R.L.A - Run Load Amps are based on current drawn at nominal conditions
F.L.A - Full Load Amps are based on the overload settings [Max Current] of all Compressor and Fan Motor(s)

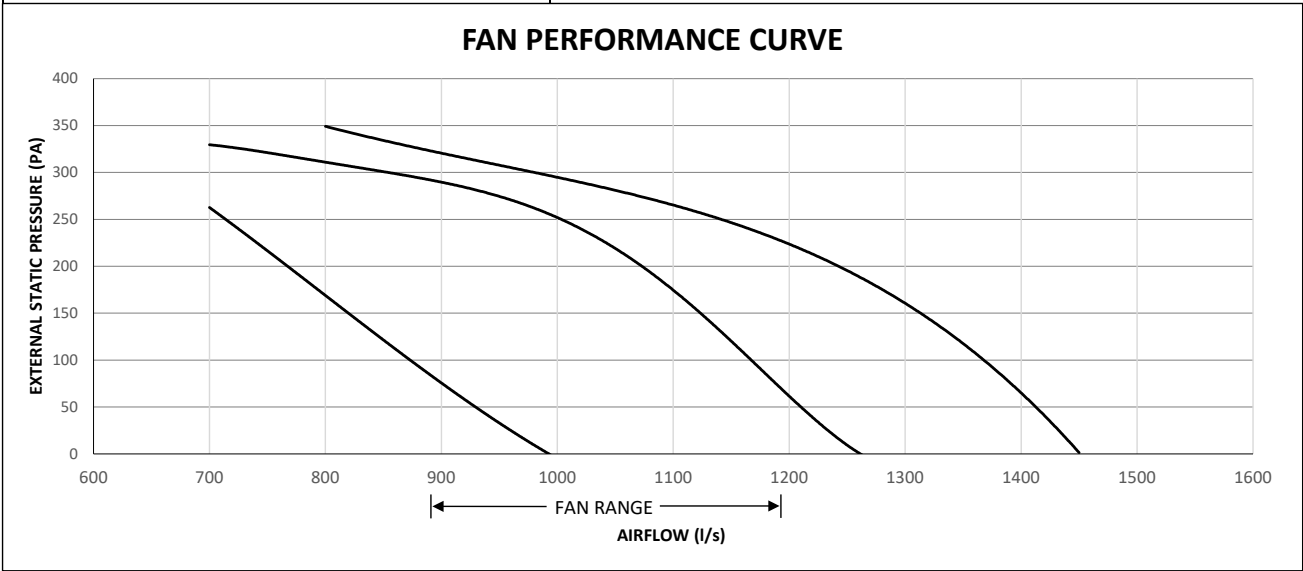
Date	Document #	Approved By	Revision
21/12/21	TDS000523	AY	B

NOTE: Due to continuous improvement Rinnai reserve the right to change details without notice.



FAN PERFORMANCE DATA

S020ILR(C)1SA-F-S



Date	Document #	Approved By	Revision
3/11/21	FPD000430	CM	A

NOTE: Due to continuous improvement Rinnai reserve the right to change details without notice.



**HIGH EFFICIENCY
SPLIT OUTDOOR / INDOOR LOW PROFILE
R410A REFRIGERANT**

SOUND DATA TABLE

MODEL NUMBER

S020OVR(C)3SA-L-S / S020ILR(C)1SA-F-S

Outdoor Fan

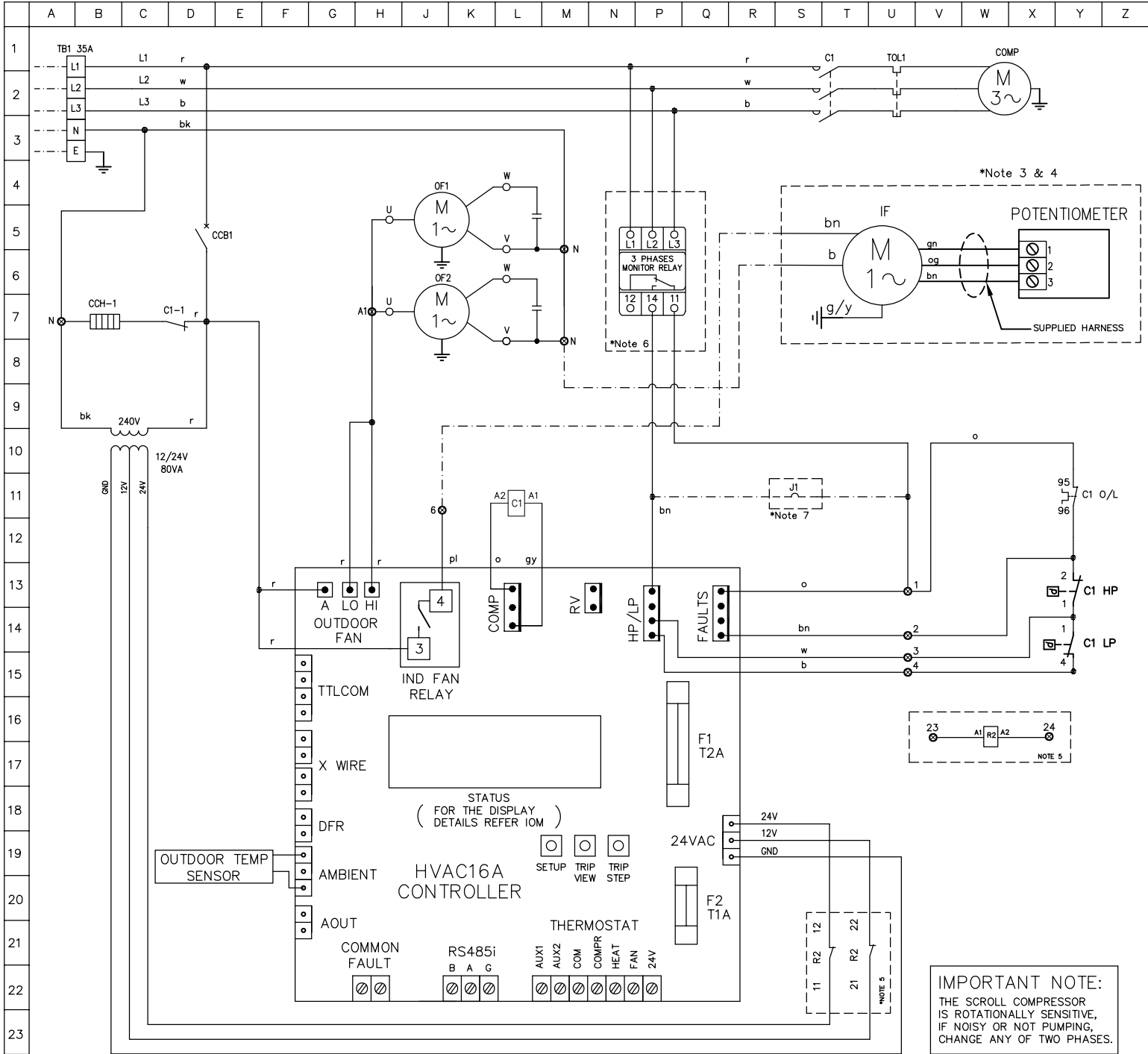
Sound Power Level dB(A)	Octave band Centre Frequency (Hz), dB						
	125	250	500	1k	2k	4k	8k
66.6	76.7	62.2	57.1	58.7	60.9	57	47.7

Indoor Fan

Sound Power Level dB(A)	Air Flow (l/s)	Octave band Centre Frequency (Hz), dB						
		125	250	500	1k	2k	4k	8k
77.3	1040	74.8	75.6	74.8	72.4	68.9	65.1	59.8

Date	Document #	Approved By	Revision
3/11/21	SDT000435	CM	A

NOTE: Due to continuous improvement Rinnai reserve the right to change details without notice.



WARNING: THE SOFTWARE OF THE HVAC16A CONTROLLER IS NOT DESIGNED TO FUNCTION AS A PRIMARY PERSONAL SAFETY DEVICE AS CONNECTED EQUIPMENT CAN START AUTOMATICALLY WITHOUT WARNING. ALSO OPENING THE THERMOSTAT CONTACTS MAY NOT CAUSE THE EQUIPMENT TO STOP. OUTDOOR FAN MOTORS HAVE INTERNAL OVERLOADS AND MAY RESTART AUTOMATICALLY.

Model	CCB1
P012-018AHC/S012-018OVC	10A
P020-023AHC/S020-023OVC	16A

- NOTES:
1. THERMAL OVERLOAD RELAYS ARE MANUAL RESET. HP SWITCH AND LP SWITCH ARE AUTO RESET, UNLESS OTHERWISE STATED.
 2. ALL FIELD WIRING IS THE RESPONSIBILITY OF THE INSTALLING CONTRACOTOR AND MUST COMPLY WITH AS/NZS 3000 AND LOCAL RULES.
 - 3A. FOR PACKAGE SYSTEMS, THE WIRING FOR INDOOR FAN TO INDOOR FAN RELAY WILL BE FACTORY FITTED TO TERMINALS 6 AND N.
 - 3B. FOR SPLIT SYSTEMS, OTHERS TO INSTALL ISOLATOR AND FIELD WIRING FOR INDOOR FAN TO TERMINAL TO TERMINALS 6 AND N.
 4. ISOLATOR FOR ELECTRICAL PROTECTION TO BE SUPPLIED BY THE INSTALLER.
 5. OPTIONAL FIRE ALARM RELAY.
 6. OPTIONAL PHASE MONITORING RELAY (PFR)
 7. JUMPER WIRE J1 AS BELOW TABLE

REV	ECN	DESCRIPTION	DATE
E	K10400	UPDATE TO NOVACO FAN	21/04/2026
D	K10378	REPLACE YELLOW WIRE WITH ORANGE	06/10/2025
C	K10317	REVISED BOARD TO HVAC16A	16/04/2024
B	K10298	THERMAL OVERLOAD AS STANDARD SUPPLY	16/10/2023
A		FIRST RELEASE	8/12/2021

NO	MODEL	COMPRESSOR			OD FAN		ID FAN	
		kW	FLA	O/L	kW	FLA	kW	FLA
1	P012AHC3SA-C-S/S0120VC3SA-ILR3SA-S	2.83	8.00	8.80	0.19	0.86	0.63	4.40
2	P015AHC3SA-C-S/S0150VC3SA-ILR3SA-S	3.59	10.30	11.50	0.19	0.86	0.63	4.40
3	P018AHC3SA-C-S/S0180VC3SA-ILR3SA-S	4.15	11.80	13.00	0.19	0.86	0.63	4.40
4	P020AHC3SA-C-S/S0200VC3SA-ILR3SA-S	4.86	15.00	16.50	0.27	1.18	0.96	6.80
5	P023AHC3SA-C-S/S0230VC3SA-ILR3SA-S	5.52	15.00	16.50	0.27	1.18	0.96	6.80

OPTION	JUMPER
PFR	J1
NO	YES
YES	NO

TABLE 1			
JUMPERS SELECTION	DEFROST INTERVAL TIME SETTING	JUMPERS SELECTION	SPEED UP
	15 min		OFF
	FACTORY SETTING 30 min		ON
	45 min		ON

LEGEND	
COMP C1	COMPRESSOR CONTACTOR
O/L	OVERLOAD
TOL	THERMAL OVERLOAD
CCH.	CRANK CASE HEATER
RV1.	REVERSING VALVE
HP.	HIGH PRESSURE SWITCH
LP.	LOW PRESSURE SWITCH
MCB	MINIATURE CIRCUIT BREAKER
CCB	CONTROL CIRCUIT BREAKER
J	JUMPER WIRE

LEGEND	
----	FIELD WIRING
----	MAINS/CONTROL WIRING
----	OPTION WIRING
○	SWITCHBOARD TB2 TERMINAL

COLOUR CODE	
r	RED
w	WHITE
b	BLUE
bk	BLACK
bn	BROWN
o	ORANGE
p	PINK
pl	PURPLE
gy	GREY
ye	YELLOW

TYPE: 5-S (CO)	
REF	DESCRIPTION
A	STANDARD



DATE	6/10/2025
DWN	OoiWL APPD CM
REV	E
DWG No.	EWS000394