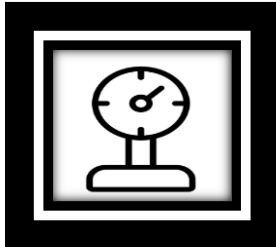


AIR COOLED SPLIT DUCTED R407C (COOLING ONLY)

Our quality build your comfort



Features



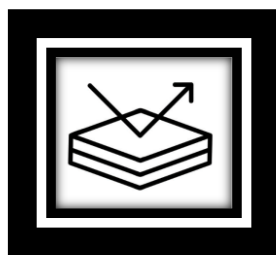
Hermetic Scroll Compressor

High efficiency, stable, high durability and quiet operation.



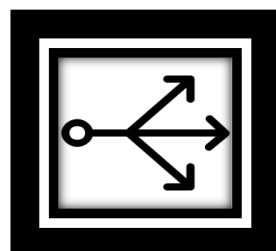
Wide Range of Products

Wide range of cooling capacity to cater for various needs.



Double skin as Option

Double skin to provide higher level of quiet operation and elegant outlook.



Multi Circuit Design

Multiple circuit design to enable part loading and energy saving

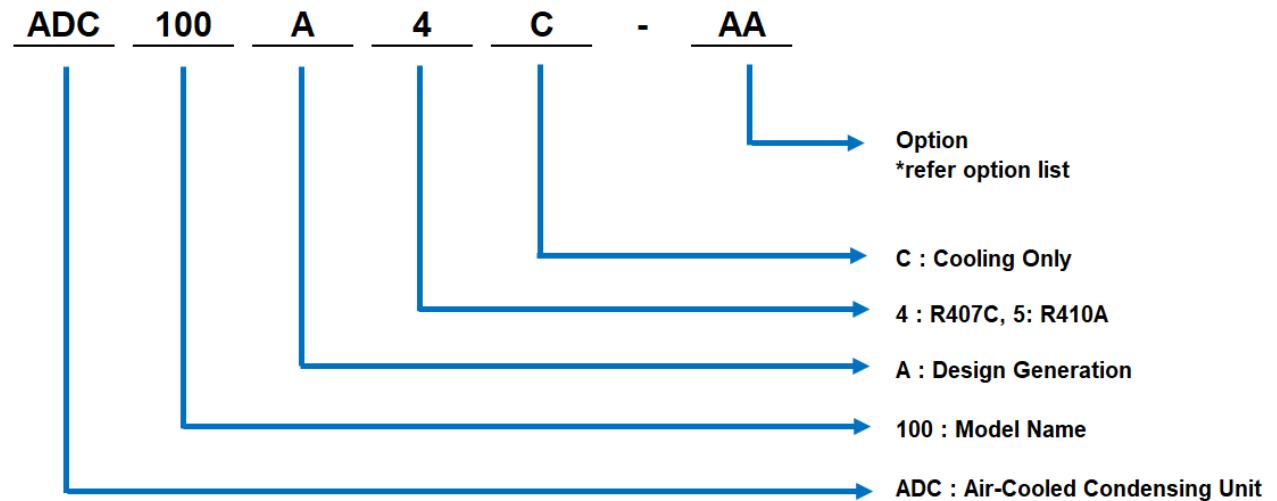


Technical Performance Guarantee

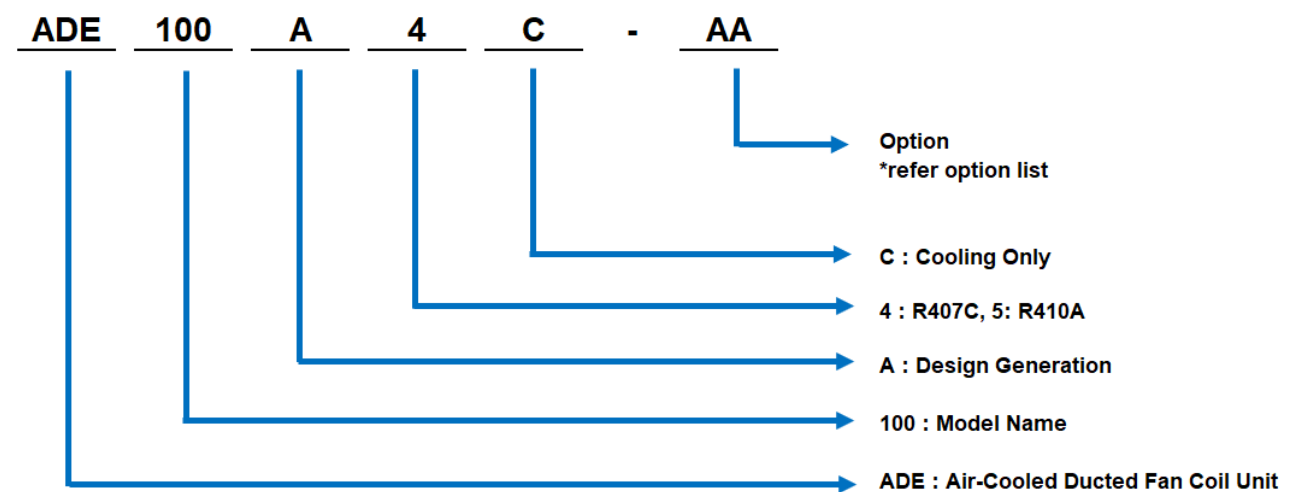
Coil selection by certified AHRI software.

Nomenclature

Air-Cooled Condensing Unit (Outdoor)



Air-Cooled Ducted Unit (Indoor)



Option list

Controller & Ball valve

AA	W/O controller, W/O ball valve
BA	With controller, W/O ball valve
BB	With controller, With ball valve

Coil Coating

XC	Epoxy Coating
HC	Heresite Coating

Specification Data

MODEL		ADE080		ADE100		ADE125		ADE150		ADE200		ADE250		ADE300	
		ADC080		ADC100		ADC125		ADC150		ADC100 X2		ADC125 X2		ADC150 X2	
NOMINAL TOTAL COOLING CAPACITY		kW	23.4	29.3	36.6	44.0	58.6	73.3	87.9						
		Btu/Hr	80,000	100,000	125,000	150,000	200,000	250,000	300,000						
NOMINAL TOTAL POWER INPUT		kW	7.7	10.6	11.6	15.2	21.3	24.1	31.5						
NOMINAL TOTAL RUNNING CURRENT		A	17.9	22.8	21.7	30.1	40.5	44.6	61.8						
COP			3.04	2.76	3.17	2.89	2.75	3.04	2.79						
EER			10.37	9.42	10.81	9.86	9.37	10.38	9.53						
AIR FLOW		l/s	1,083	1,389	1,736	2,083	2,778	3,472	4,167						
		m3/h	3,900	5,000	6,250	7,500	10,000	12,500	15,000						
STANDARD EXTERNAL STATIC PRESSURE		Pa	145	175	200	200	225	300	300						
SOUND PRESSURE LEVEL		dB(A)	66	67	65	65	69	72	69						
REFRIGERANT TYPE			R407C												
REFRIGERANT CHARGING VOLUME		kg	4.5	6	7	8.5	6.0 X2	7.0 X2	8.5 X 2						
			OUTDOOR UNIT												
POWER SUPPLY			380~415V / 3Ph / 50Hz												
COMPRESSOR	TYPE		FULLY HERMETIC SCROLL TYPE												
	QUANTITY		1	1	1	1	2	2	2						
	NOMINAL POWER INPUT	kW	6.6	8.5	9.5	12.6	17.0	19.0	25.2						
	NOMINAL CURRENT	A	12.4	16.1	17.5	25.2	32.2	35.0	50.4						
CONDENSER	TYPE		AL-CU FINNED TUBE HEAT EXCHANGER												
	AREA	m2	1.19	1.65	1.65	1.65	3.29	3.29	3.29						
CONDENSER FAN	TYPE		HIGH EFFICIENCY AXIAL FAN												
	DRIVE		DIRECT DRIVE												
	QUANTITY		1	1	1	1	2	2	2						
MOTOR	POWER INPUT	kW	0.62	1.00	1.05	1.35	2.01	2.10	2.71						
	NOMINAL CURRENT	A	1.47	1.99	2.05	2.52	3.98	4.10	5.04						
	QUANTITY	pcs	1	1	1	1	2	2	2						
			INDOOR UNIT												
POWER SUPPLY			220~240V / 1Ph / 50Hz			380~415V / 3Ph / 50Hz									
EVAPORATOR	TYPE		AL-CU FINNED TUBE HEAT EXCHANGER												
	AREA	m2	0.48	0.57	0.73	0.86	1.14	1.45	1.68						
EVAPORATOR FAN	TYPE		CENTRIFUGAL FAN												
	DRIVE		DIRECT DRIVE (3 SPEED)			BELT DRIVEN									
	QUANTITY	pcs	2	2	1	1	1	1	1						
MOTOR	TYPE		SQUIRREL CAGE INDUCTION MOTOR												
	POWER INPUT	kW	0.536	1.11	1.01	1.26	2.34	2.98	3.59						
	POWER OUTPUT	kW	0.7	1.1	1.5	1.5	3	4	4						
	NOMINAL CURRENT	A	4.04	4.73	2.16	2.4	4.34	5.52	6.32						
	QUANTITY	pcs	2	2	1	1	1	1	1						
AIR FILTER	TYPE		Saranet (12mm)			G2 WASHABLE FILTER (46mm)									
			CONNECTIONS & DIMENSIONS												
CONNECTIONS	COPPER CONNECTION (LIQUID PIPE)	inch	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"						
		mm	15.88	15.88	15.88	15.88	15.88	15.88	15.88						
	COPPER CONNECTION (GAS PIPE)	inch	1-1/8"	1-1/8"	1-3/8"	1-3/8"	1-1/8"	1-3/8"	1-3/8"						
		mm	28.6	28.6	34.9	34.9	28.6	34.9	34.9						
	DRAIN PIPE	inch	1"	1"	1"	1"	1"	1"	1"						
		DN	DN25	DN25	DN25	DN25	DN25	DN25	DN25						
NET WEIGHT	INDOOR UNIT	kg	79	83	156	156	193	320	334						
	OUTDOOR UNIT	kg	137	177	179	195	177 X2	179 X2	195 X2						
INDOOR UNIT OUTLINE DIMENSIONS	LENGTH	mm	1,180	1,380	1,320	1,520	1,720	1,720	1,720						
	WIDTH	mm	580	580	850	850	850	1,050	1,210						
	HEIGHT	mm	529	529	750	750	860	1,060	1,210						
OUTDOOR UNIT OUTLINE DIMENSIONS	LENGTH	mm	1,230	1,100	1,100	1,100	1,100 X2	1,100 X2	1,100 X2						
	WIDTH	mm	490	1,054	1,054	1,054	1,054 X2	1,054 X2	1,054 X2						
	HEIGHT	mm	946	1,026	1,026	1,026	1,026 X2	1,026 X2	1,026 X2						

Note :

- Test conditions of nominal total cooling capacity as below:
- Indoor Condition: 27°C DB / 19°C WB
- Outdoor Condition: 35°C DB / 24°C WB
- 25mm PU Panel casing is available upon request
- G3-G4 primary filter is available upon request
- Non standard Air Flow and ESP are available upon request
- Materials and specifications are subject to change without notice due to the manufacturer's ongoing research and development programme

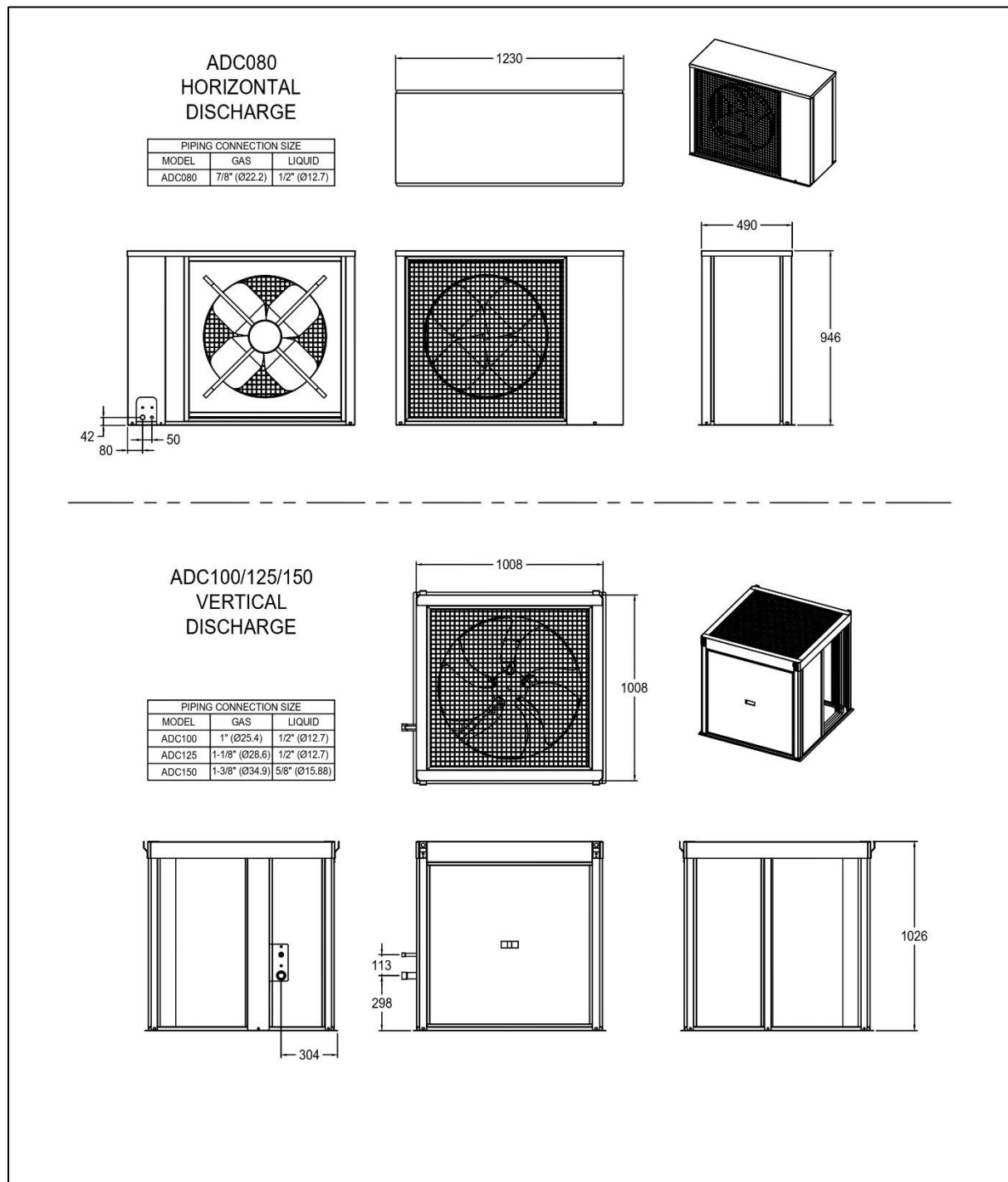
MODEL			ADE350		ADE400	ADE450	ADE500	ADE600	ADE750
			ADC100	ADC125 X2	ADC100 X4	ADC150 X3	ADC125 X4	ADC150 X4	ADC150 X5
NOMINAL TOTAL COOLING CAPACITY		kW	102.6		117.2	131.9	146.5	175.8	219.8
		Btu/Hr	350,000		400,000	450,000	500,000	600,000	750,000
NOMINAL TOTAL POWER INPUT		kW	34.9		42.7	47.5	49.4	64.8	81.5
NOMINAL TOTAL RUNNING CURRENT		A	65.0		81.0	93.2	91.2	126.1	158.5
COP			2.94		2.75	2.77	2.97	2.71	2.70
EER			10.02		9.38	9.46	10.13	9.26	9.21
AIR FLOW		l/s	4,861		5,556	6,250	6,944	8,333	10,417
		m3/h	17,500		20,000	22,500	25,000	30,000	37,500
STANDARD EXTERNAL STATIC PRESSURE		Pa	300		310	330	390	390	430
SOUND PRESSURE LEVEL		dB(A)	70		70	71	73	71	65
REFRIGERANT TYPE			R407C						
REFRIGERANT CHARGING VOLUME		kg	6	7.0 X 2	6.0 X 4	8.5 X 3	7.0 X 4	8.5 X 4	8.5 X 5
			OUTDOOR UNIT						
POWER SUPPLY			380~415V / 3Ph / 50Hz						
COMPRESSOR	TYPE		FULLY HERMETIC SCROLL TYPE						
	QUANTITY		3		4	3	4	4	5
	NOMINAL POWER INPUT	kW	27.5		34.0	37.8	38.0	50.4	63.0
	NOMINAL CURRENT	A	51.1		64.4	75.6	70.0	100.8	126.0
CONDENSER	TYPE		AL-CU FINNED TUBE HEAT EXCHANGER						
	AREA	m2	4.94		6.58	4.94	6.58	6.58	8.23
CONDENSER FAN	TYPE		HIGH EFFICIENCY AXIAL FAN						
	DRIVE		DIRECT DRIVE						
	QUANTITY		3		4	3	4	4	5
MOTOR	POWER INPUT	kW	3.10		4.01	4.06	4.20	5.41	6.77
	NOMINAL CURRENT	A	6.09		7.96	7.56	8.20	10.08	12.60
	QUANTITY	pcs	3		4	3	4	4	5
			INDOOR UNIT						
POWER SUPPLY			380~415V / 3Ph / 50Hz						
EVAPORATOR	TYPE		AL-CU FINNED TUBE HEAT EXCHANGER						
	AREA	m2	2.01		2.26	2.58	2.77	3.37	3.96
EVAPORATOR FAN	TYPE		CENTRIFUGAL FAN						
	DRIVE		BELT DRIVEN						
	QUANTITY	pcs	1		1	1	1	1	1
MOTOR	TYPE		SQUIRREL CAGE INDUCTION MOTOR						
	POWER INPUT	kW	4.32		4.64	5.69	7.17	8.96	11.7
	POWER OUTPUT	kW	5.5		5.5	7.5	11	11	15
	NOMINAL CURRENT	A	7.8		8.6	10.02	12.95	15.2	19.85
	QUANTITY	pcs	1		1	1	1	1	1
AIR FILTER	TYPE		G2 WASHABLE FILTER (46mm)						
			CONNECTIONS & DIMENSIONS						
CONNECTIONS	COPPER CONNECTION (LIQUID PIPE)	inch	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
		mm	15.88	15.88	15.88	15.88	15.88	15.88	15.88
	COPPER CONNECTION (GAS PIPE)	inch	1-1/8"	1-3/8"	1-1/8"	1-3/8"	1-3/8"	1-3/8"	1-3/8"
		mm	28.6	34.9	28.6	34.9	34.9	34.9	34.9
	DRAIN PIPE	inch	1"		1"	1"	1"	1"	1"
	DN	DN25		DN25	DN25	DN25	DN25	DN25	
NET WEIGHT	INDOOR UNIT	kg	428		483	528	575	890	935
	OUTDOOR UNIT	kg	177	179 X2	177 X4	195 X3	179 X4	195 X4	195 X5
INDOOR UNIT OUTLINE DIMENSIONS	LENGTH	mm	2,020		2,070	2,170	2,170	2,170	2,170
	WIDTH	mm	1,210		1,320	1,320	1,320	1,700	1,700
	HEIGHT	mm	1,210		1,310	1,410	1,510	1,830	2,150
OUTDOOR UNIT OUTLINE DIMENSIONS	LENGTH	mm	1,100	1,100 X2	1,100 X4	1,100 X3	1,100 X4	1,100 X4	1,100 X5
	WIDTH	mm	1,054	1,054 X2	1,054 X4	1,054 X3	1,054 X4	1,054 X4	1,054 X5
	HEIGHT	mm	1,026	1,026 X2	1,026 X4	1,026 X3	1,026 X4	1,026 X4	1,026 X5

Note :

- Test conditions of nominal total cooling capacity as below:
- Indoor Condition: 27°C DB / 19°C WB
- Outdoor Condition: 35°C DB / 24°C WB
- 25mm PU Panel casing is available upon request
- G3-G4 primary filter is available upon request
- Non standard Air Flow and ESP are available upon request
- Materials and specifications are subject to change without notice due to the manufacturer's ongoing research and development programme

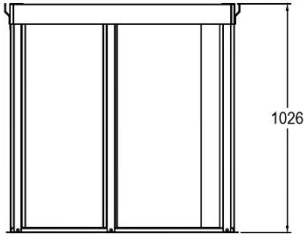
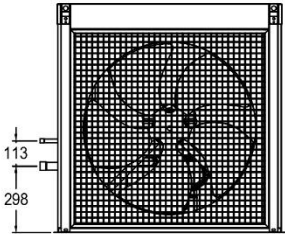
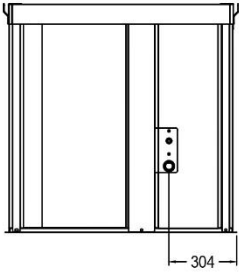
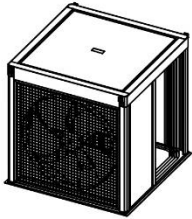
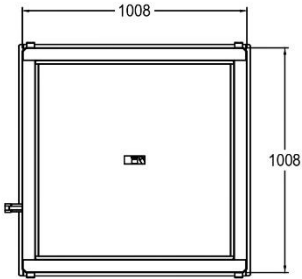
Dimension

Model : ADC080/ADC100/ADC125/ADC150

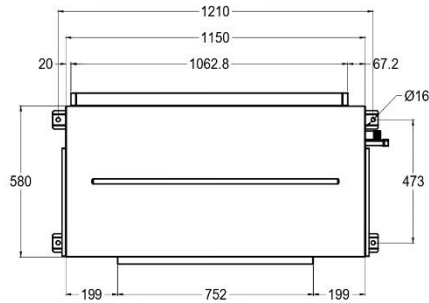


ADC100/125/150
HORIZONTAL
DISCHARGE

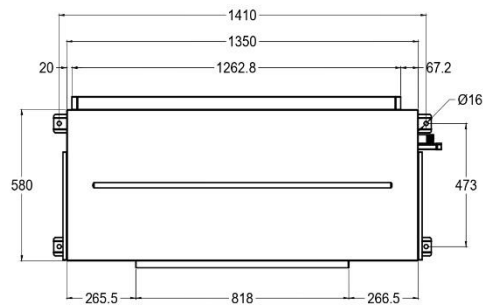
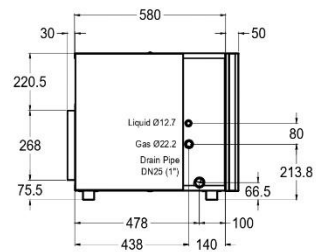
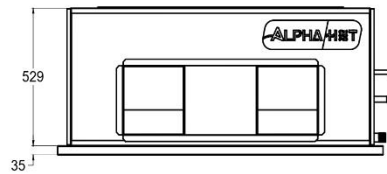
PIPING CONNECTION SIZE		
MODEL	GAS	LIQUID
ADC100	1" (Ø25.4)	1/2" (Ø12.7)
ADC125	1-1/8" (Ø28.6)	1/2" (Ø12.7)
ADC150	1-3/8" (Ø34.9)	5/8" (Ø15.88)



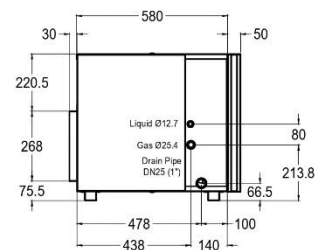
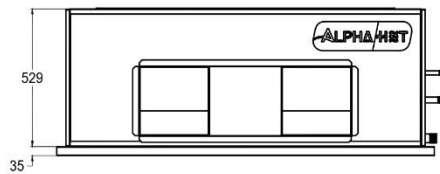
Model : ADE080/ADE100



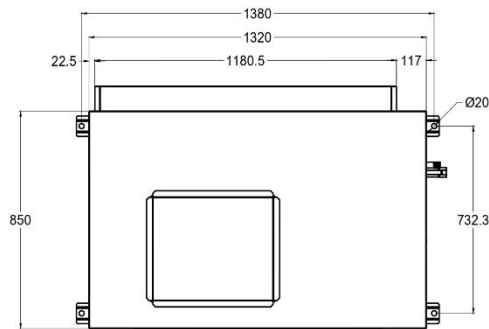
ADE080
HORIZONTAL
DISCHARGE



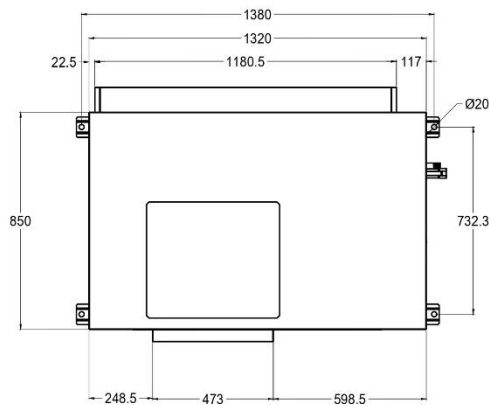
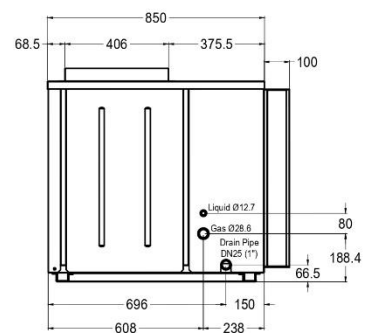
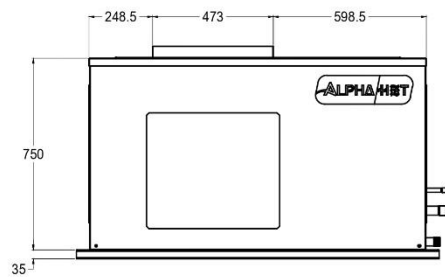
ADE100
HORIZONTAL
DISCHARGE



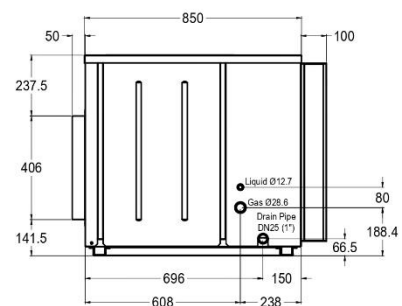
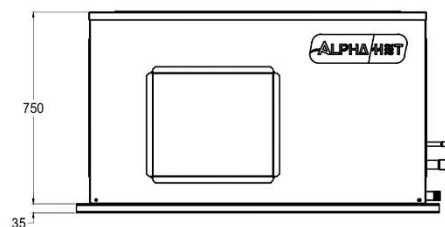
Model : ADE125



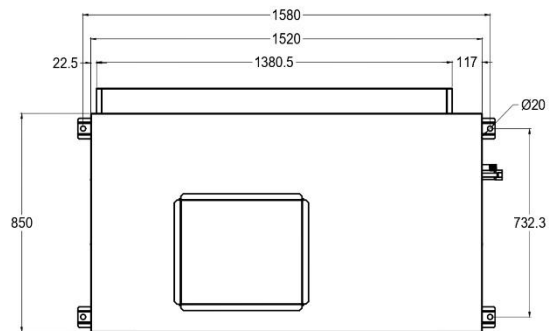
**ADE125
VERTICAL
DISCHARGE**



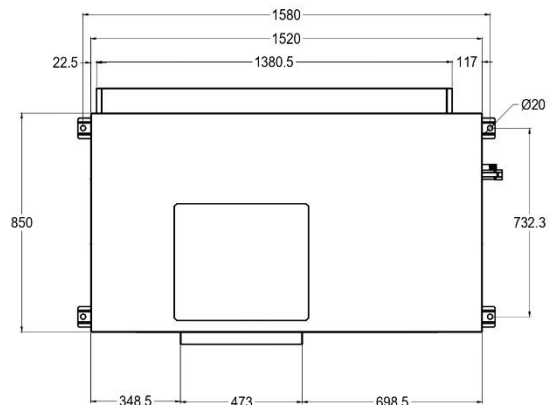
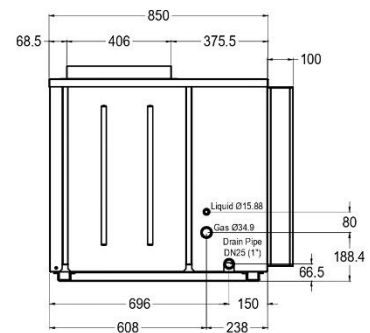
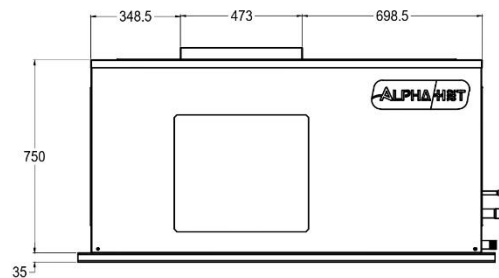
**ADE125
HORIZONTAL
DISCHARGE**



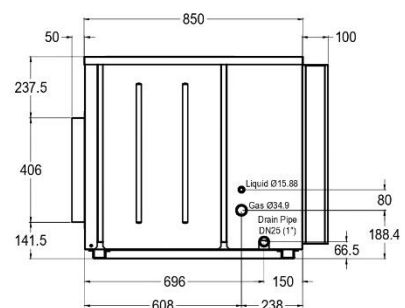
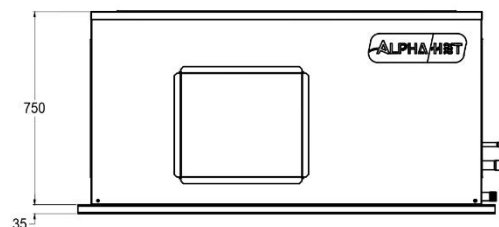
Model : ADE150



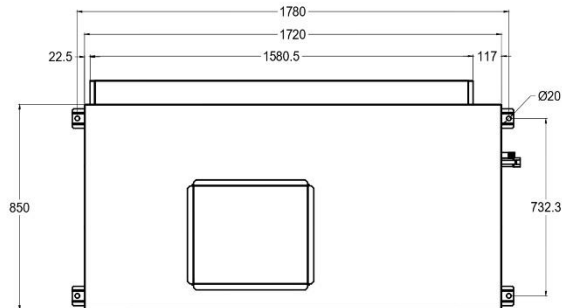
**ADE150
VERTICAL
DISCHARGE**



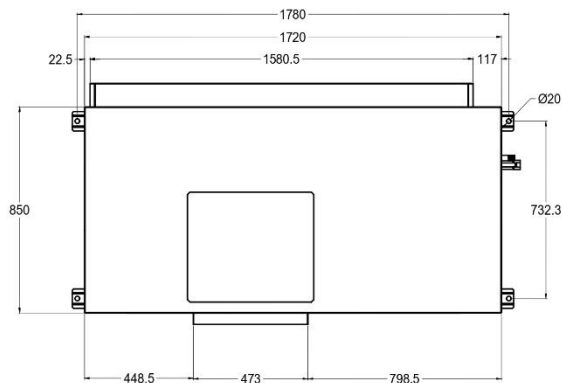
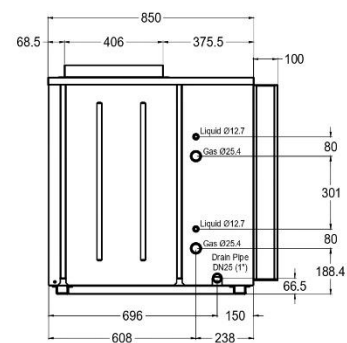
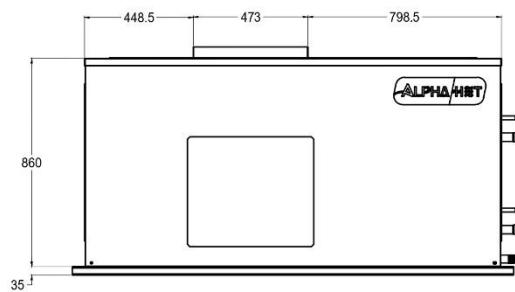
**ADE150
HORIZONTAL
DISCHARGE**



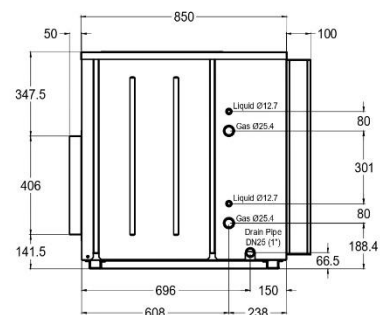
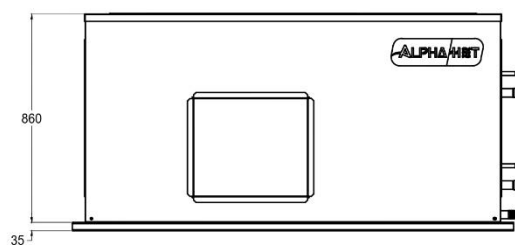
Model : ADE200



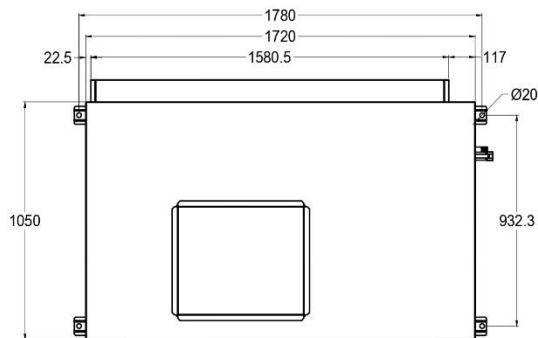
ADE200
VERTICAL
DISCHARGE



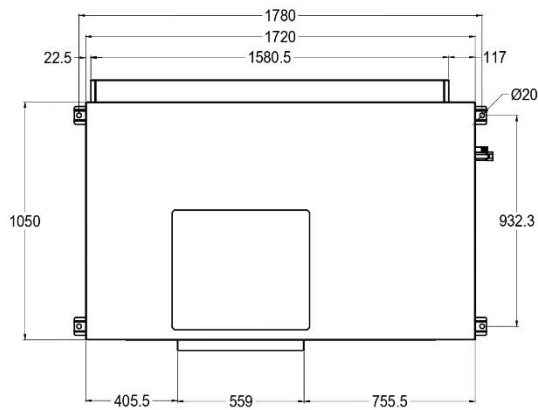
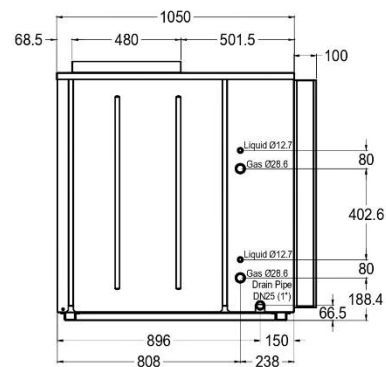
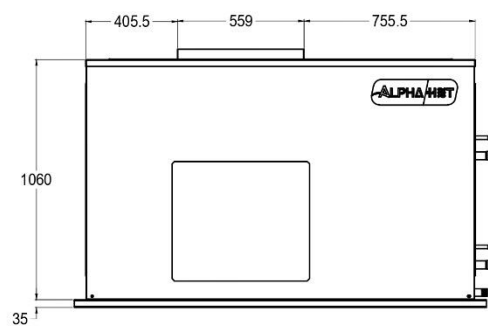
ADE200
HORIZONTAL
DISCHARGE



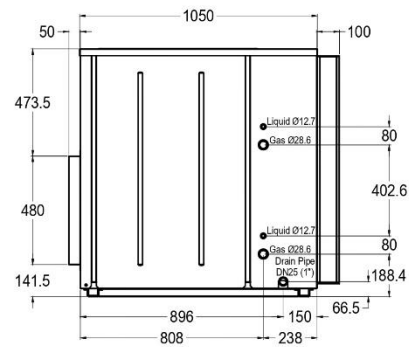
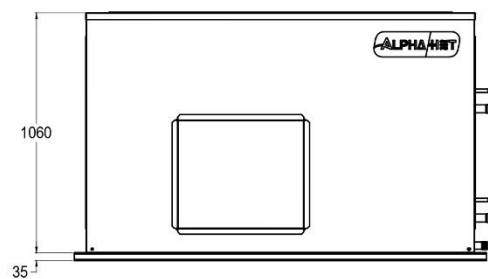
Model : ADE250



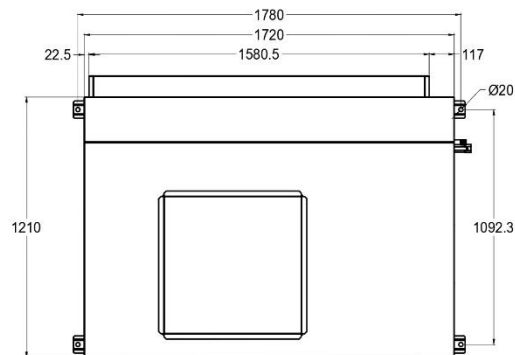
ADE250
VERTICAL
DISCHARGE



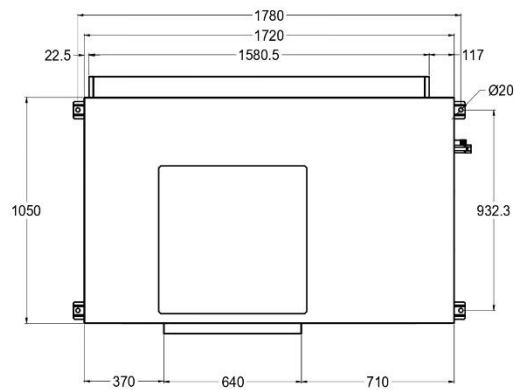
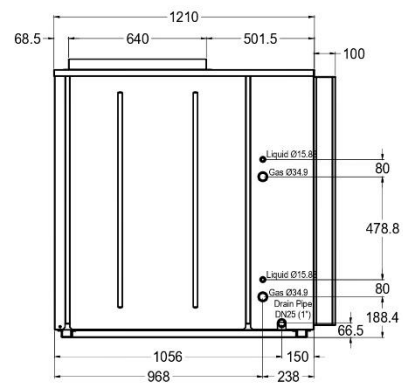
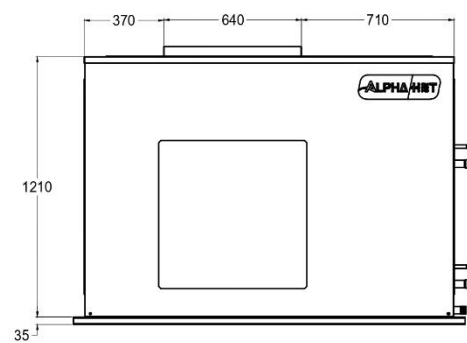
ADE250
HORIZONTAL
DISCHARGE



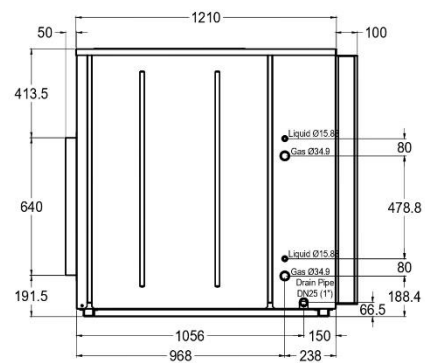
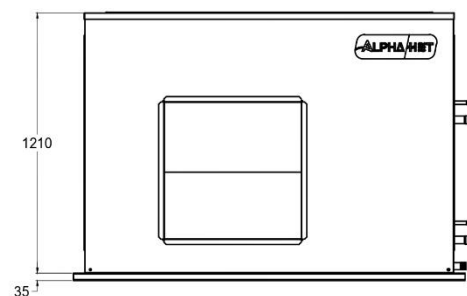
Model : ADE300



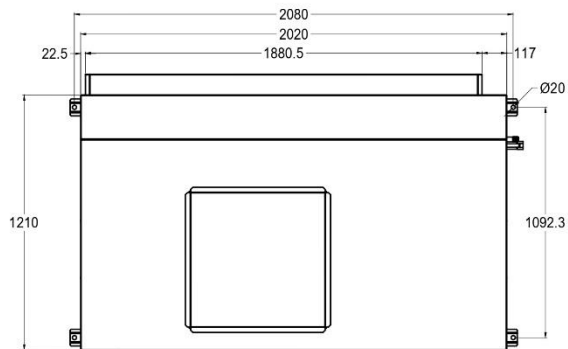
ADE300
VERTICAL
DISCHARGE



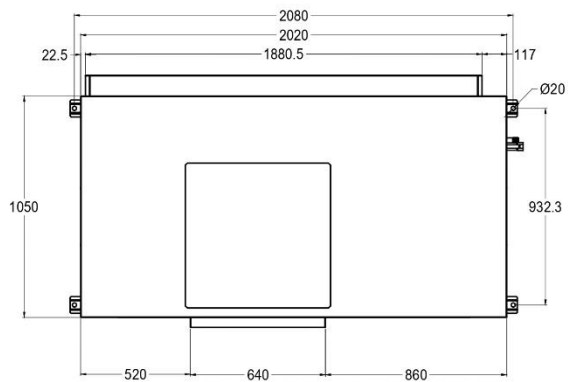
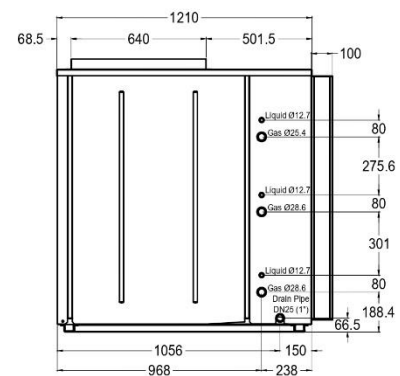
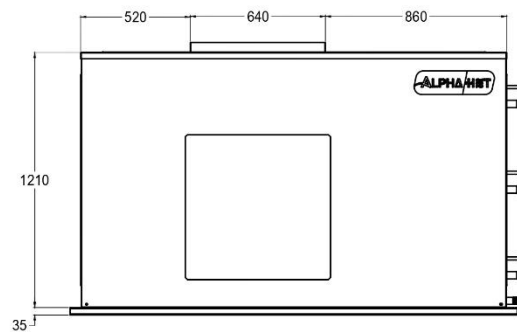
ADE300
HORIZONTAL
DISCHARGE



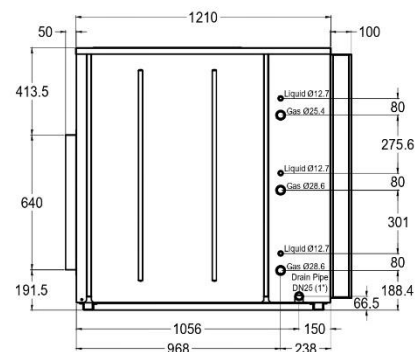
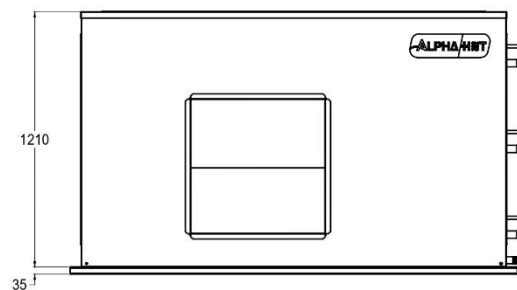
Model : ADE350



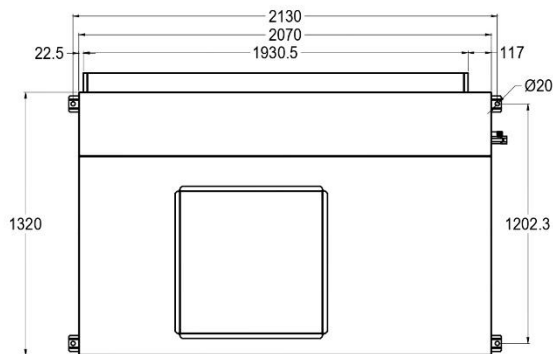
ADE350
VERTICAL
DISCHARGE



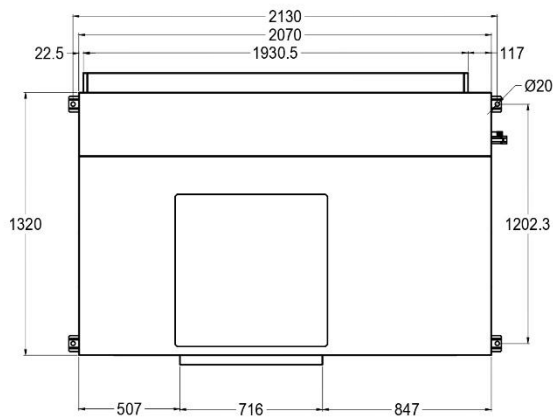
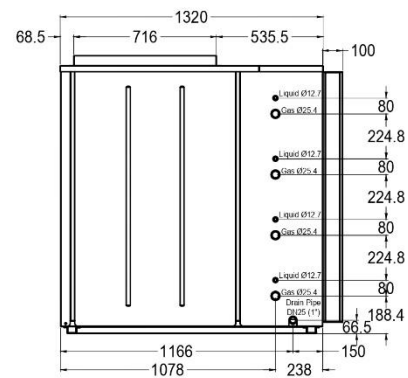
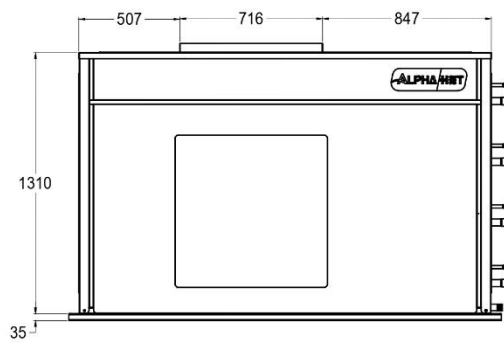
ADE350
HORIZONTAL
DISCHARGE



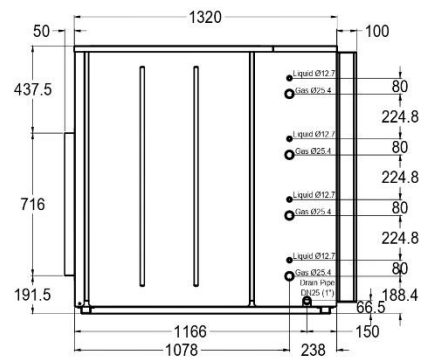
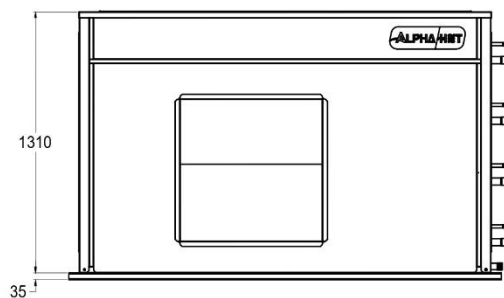
Model : ADE400



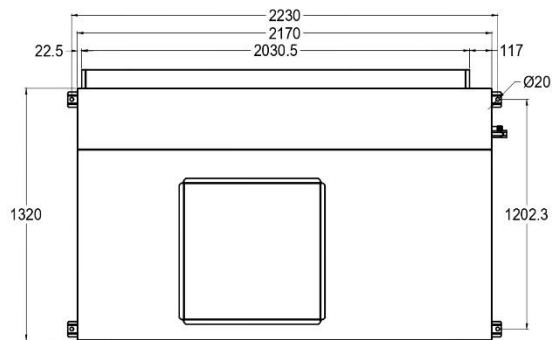
ADE400
VERTICAL
DISCHARGE



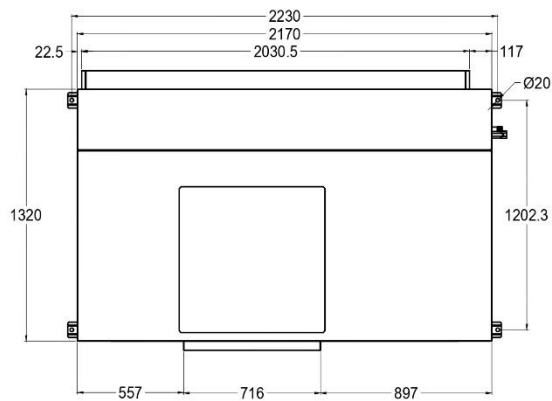
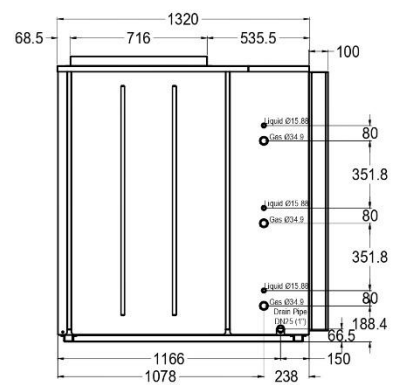
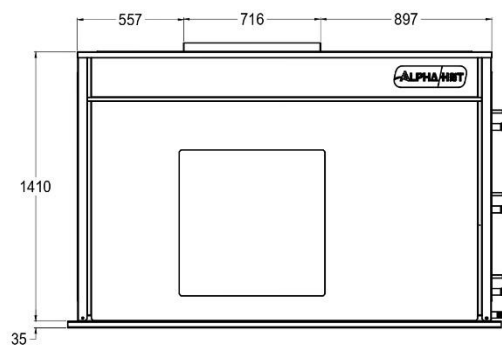
ADE400
HORIZONTAL
DISCHARGE



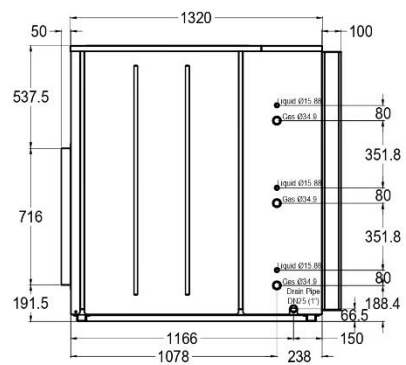
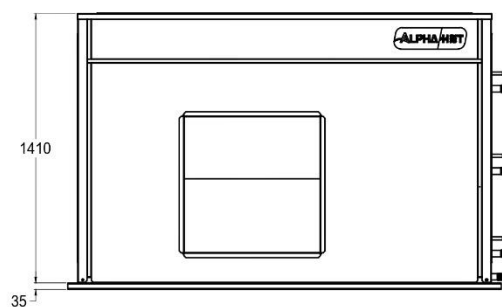
Model : ADE450



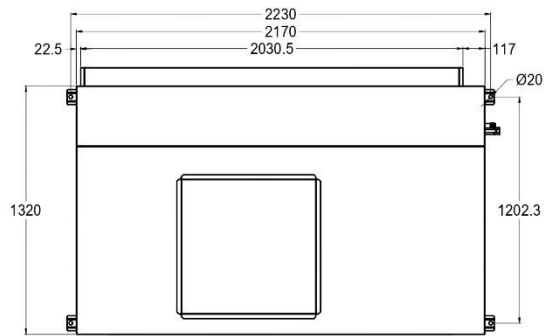
ADE450
VERTICAL
DISCHARGE



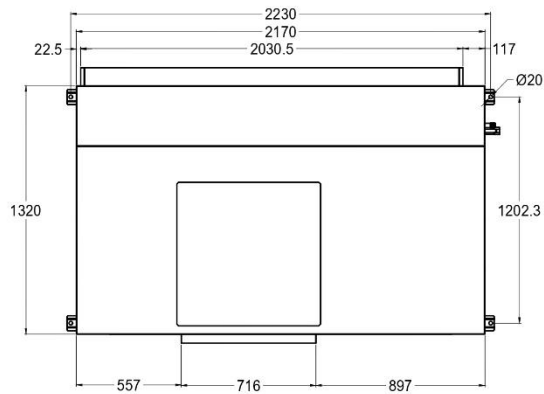
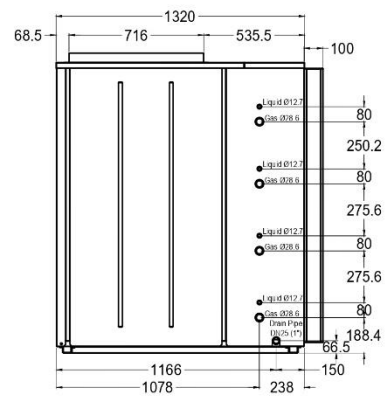
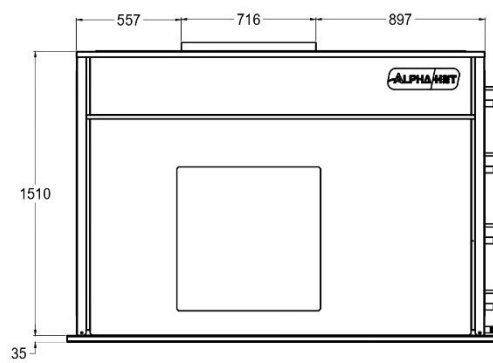
ADE450
HORIZONTAL
DISCHARGE



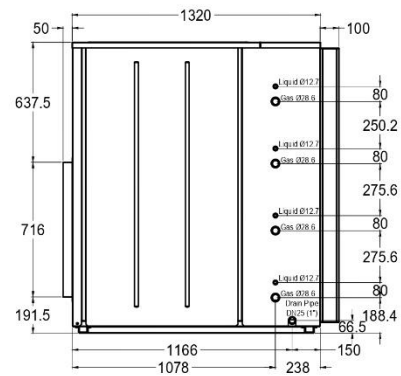
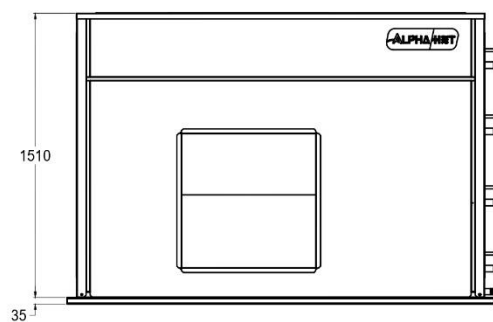
Model : ADE500



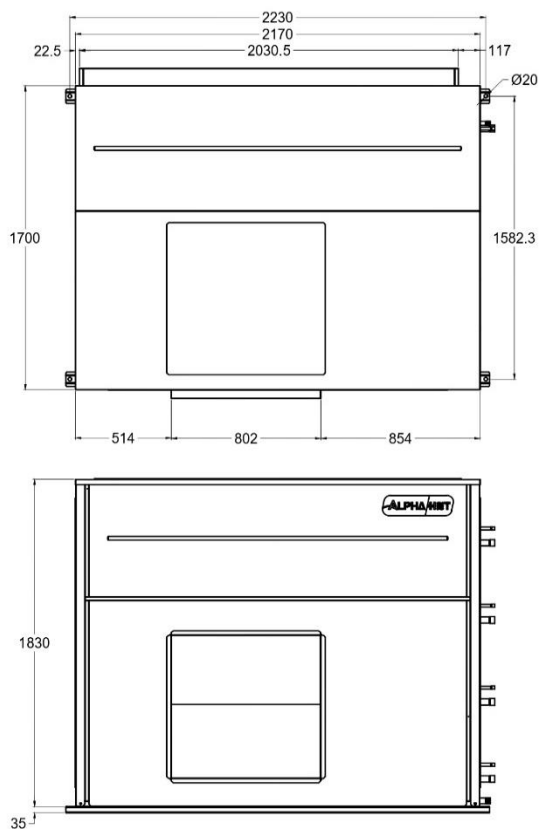
ADE500
VERTICAL
DISCHARGE



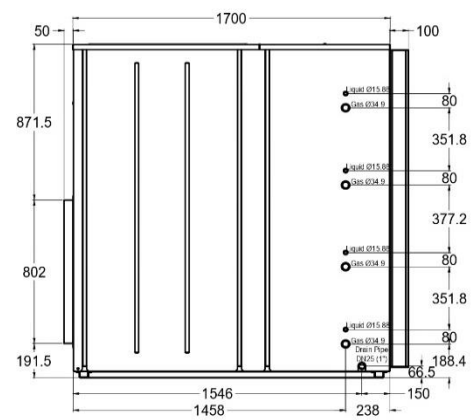
ADE500
HORIZONTAL
DISCHARGE



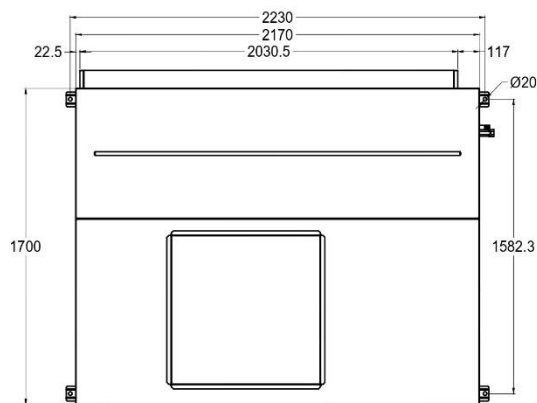
Model : ADE600 (Horizontal Discharge)



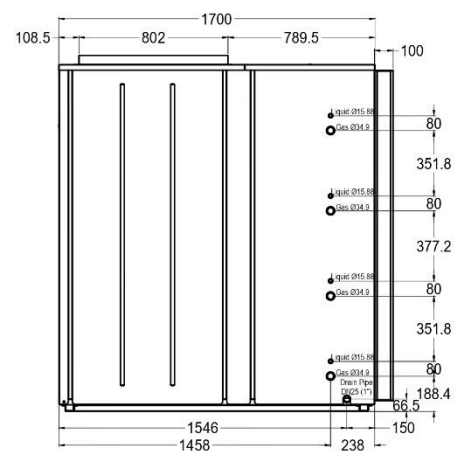
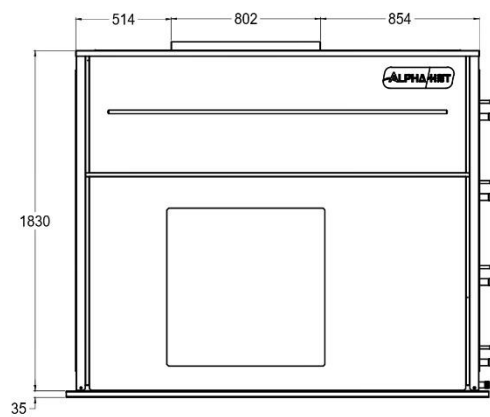
ADE600
HORIZONTAL
DISCHARGE



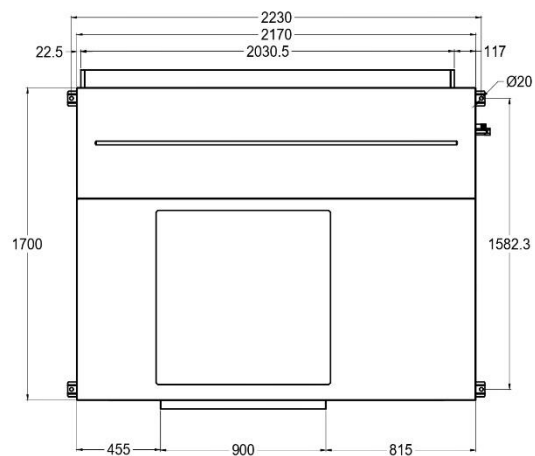
Model : ADE600 (Vertical Discharge)



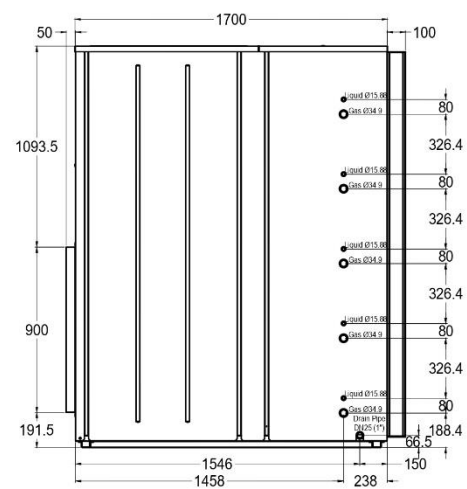
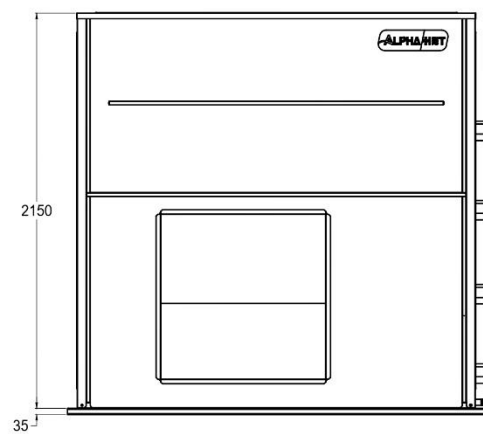
ADE600
VERTICAL
DISCHARGE



Model : ADE750 (Horizontal Discharge)



ADE750
HORIZONTAL
DISCHARGE



Technical drawings of the ADE750 Vertical Discharge unit. The top drawing is a front view showing a rectangular unit with a width of 2230 mm (2170 mm internal) and a height of 1700 mm. It features a horizontal discharge slot at the top and a square access panel on the front. The bottom drawing is a side view showing a depth of 900 mm and a height of 2150 mm. It includes a top rail and a bottom rail, with a square access panel on the side. The right drawing is a detailed side view showing the internal structure, including the discharge slot and the access panel, with dimensions for the internal components and the overall unit.



ALPHA HEAT EXCHANGE TECHNOLOGY SDN BHD
30, JALAN STR 2, SAUJANA TEKNOLOGI RAWANG,
48000 RAWANG, SELANGOR,
MALAYSIA.

EMAIL: sales.service@alphahet.com

TEL : 03-2092 2820



ISO 9001: 2015 Cert.No 770145

CONTACT