

Ducted Static Blower

SB Series

Sizes 40,000 through 750,000Btu/h



 **YORK**®

GENERAL

SB Series of Ducted Static Blower Units are available in a series of standard sizes as well as customized to requirements.

The *SB Standard Series* covers a range of 40,000 Btu/h to 750,000 Btu/h for both Direct Expansion or Chilled Water systems.

While the *SB Standard Series* suffice to cover most applications, customized units are available upon demand to provide complementary solutions to special dimensional requests, special unit configuration or arrangement, special coil configuration and performance, special blower and drive package requirements, special corrosion resistance requirements, special insulation requirements, and special hazardous environment requirements.

Both standard units and customized units are constructed from thermally insulated systems using high tensile precision extruded anodized aluminium profiles assembled with weather proof nylon grade corner pieces.

Panels are double skin insulated panels offered in two options, that is 1/2" or 1", both offering excellent rigidity and thermal insulation properties, good sound and vibration insulation and good internal surfaces against bacterial growth.

Coils may be direct expansion types or chilled water types. Versatile selection of coils is possible through a wide range of tubes : 3/8", 1/2" or 5/8" and various alternatives of fin material ranging from plain to epoxy coated, and copper based alloys.

1. FEATURES

A. Evergreen Design

Above ceiling ducting system only exposes supply and return grille to view. Unit design is hence evergreen in design and function, and does not fade out-of-season against contemporary fashion.

B. Flexible and Versatile Installation

Supply and return grilles blend well and easily with interior decoration. Multiple zones can be cooled with single unit installation.

C. Good Indoor Air Quality

Fresh air intake can be easily designed into the system together with good air filtration to offer good indoor air quality.

D. Excellent Air Distribution

Good ducting system offers excellent air distribution and air exchange to each corner of the room giving rise to excellent human comfort cooling.

E. Flexible Air Supply

Air volume and static may be easily adjusted to requirement and cater to wide applications.

F. Excellent Service Access

Units are designed with service access panels as many as four per unit for smaller units. For bigger units with bigger service panel opening, two service panels per unit may suffice.

G. Scroll Technology

For direct expansion units, all outdoor units are driven by reputable scroll compressors with better energy efficiency, lower noise level, higher reliability and longer life.

H. Flexible Arrangement

Standard factory set arrangement for plant room units may be easily converted to desired orientation.

SPECIFICATION FOR CW-DS05 SERIES

a. 9-9 Series

CW-DS05 TYPE		9-9 SERIES					
INDOOR MODEL		SB-040-W-DS05-H1	SB-050-W-DS05-H1	SB-060-W-DS05H1	SB-075-W-DS05-H1	SB-100-W-DS05-H1	
PERFORMANCE	Total Capacity	Btu/H	40,000	50,000	60,000	75,000	100,000
		Watt	11,720	14,650	17,580	21,975	29,300
		Kcal/h	10,080	12,600	15,120	18,900	25,200
	Sensible Capacity	Btu/H	28,000	35,000	42,000	52,500	70,000
		Watt	8,206	10,257	12,309	16,385	20,515
		Kcal/h	7,757	9,659	11,636	14,545	19,394
	Nominal Airflow	CFM	1,250	1,600	2,000	2,500	3,200
		CMM	35.4	45.3	56.6	70.8	90.6
		L/s	589	755	943	1,179	1,510
	Waterflow	L/s					
Static Pressure	mmAq / Pa	10.2 / 104.3		10.2 / 104.3			
DIMENSION	Unit Size	Height (Unit/Crated)	500mm / 720mm				
		Depth (Unit/Crated)	764mm / 1,045mm				
		Width (Unit/Crated)	740mm / 925mm		1,440mm / 1,625mm		
		Weight					
	Casing Structure	Panel	Electro Galvanised Mild Steel				
Frame		Anodised Aluminium Extrusion					
Finishing		Plain Galvalum Finish / Polyester Powder Coating					
Insulation		1" Double Skin Insulated Panel encapsulated with PVC Trim					
FAN	Power Source	V/Ph/Hz 220 / 1 / 50					
	Blower	Type / Drive	Forward Curved Centrifugal Direct Driven type of Galvanised Steel construction				
		Size	9-9				
		Qty	1				2
	Motor	Type	Permanent Split Capacitor 220V/1Ph/50Hz/6P/400W/3 speed				
		Power	0.4 kW / 0.5 Hp				
		Quantity per Set	1				2
COOLING COIL	Evaporator Coil	Type	Cross Finned Tubes				
		Quantity per Set	1				
	Tube	Material	Seamless Copper				
		Size	9.52mm / 3/8" (OD) x 0.35mm / 0.013" (wall thickness)				
	Fin	Material	Plain / Hydrophilic Blue (Optional) Aluminium of thickness 0.115mm				
		Row	3	4	3	3	4
		Fin pitch	2.117mm / 12fpi				
	Pipe	Header	38.1 mm / 1 1/2"				
Drain Pipe		25.4mm / 1"					
FILTER	Media	Type Nominal 1" type of Synthetic Washable R15 with 70% Arrestance					
	Filter	Frame	Anodised Aluminium Frame (14mm) with Pleated GI Liner Backing.				
		Size	410mm(H) x 655mm(L)		410mm(H) x 675mm(L)		
		Quantity per Set	1				2

b. 10-8 Series

CW-DS05 TYPE		10-8 SERIES					
INDOOR MODEL		SB-040-W-DS05-H1	SB-050-W-DS05-H1	SB-060-W-DS05H1	SB-075-W-DS05-H1	SB-100-W-DS05-H1	
PERFORMANCE	Total Capacity	Btu/H	40,000	50,000	60,000	75,000	100,000
		Watt	11,720	14,650	17,580	21,975	29,300
		Kcal/h	10,080	12,600	15,120	18,900	25,200
	Sensible Capacity	Btu/H	28,000	35,000	42,000	52,500	70,000
		Watt	8,206	10,257	12,309	16,385	20,515
		Kcal/h	7,757	9,659	11,636	14,545	19,394
	Nominal Airflow	CFM	1,250	1,600	2,000	2,500	3,200
		CMM	35.4	45.3	56.6	70.8	90.6
		L/s	589	755	943	1,179	1,510
	Waterflow	L/s					
Static Pressure	mmAq / Pa	10.2 / 104.3		10.2 / 104.3			
DIMENSION	Unit Size	Height (Unit/Crated)	580mm / 800mm				
		Depth (Unit/Crated)	619mm / 900mm				
		Width (Unit/Crated)	675mm / 860mm		1,350mm / 1,535mm		
		Weight					
	Casing Structure	Panel	Electro Galvanised Mild Steel				
Frame		Anodised Aluminium Extrusion					
Finishing		Plain Galvalum Finish / Polyester Powder Coating					
Insulation		1/2" Double Skin Insulated Panel encapsulated with PVC Trim					
FAN	Power Source	V/Ph/Hz	220 / 1 / 50				
	Blower	Type / Drive	Forward Curved Centrifugal Direct Driven type of Galvanised Steel construction				
		Size	10-8				
		Qty	1				2
	Motor	Type	Permanent Split Capacitor 220V/1Ph/50Hz/6P/400W/3 speed				
		Power	0.4 kW / 0.5 Hp				
Quantity per Set		1				2	
COOLING COIL	Evaporator Coil	Type	Cross Finned Tubes				
		Quantity per Set	1				
	Tube	Material	Seamless Copper				
		Size	9.52mm / 3/8" (OD) x 0.35mm / 0.013" (wall thickness)				
	Fin	Material	Plain / Hydrophilic Blue (Optional) Aluminium of thickness 0.115mm				
		Row	3	4	3	3	4
	Pipe	Fin pitch	2.117mm / 12fpi				
Header		38.1 mm / 1 1/2"					
Drain Pipe		25.4mm / 1"					
FILTER	Media	Nominal 1" type of Synthetic Washable R15 with 70% Arrestance					
	Filter	Frame	Anodised Aluminium Frame (14mm) with Pleated GI Liner Backing.				
		Size	495mm(H) x 590mm(L)		495mm(H) x 630mm(L)		
		Quantity per Set	1				2

c. 15-15 Series

CW-DS05 TYPE		15-15 SERIES			
INDOOR MODEL		SB-125-W-DS05-H1	SB-150-W-DS05-H1	SB-200-W-DS05-H1	
PERFORMANCE	Total Capacity	Btu/H	125,000	150,000	200,000
		Watt	36,625	43,950	58,600
		Kcal/h	31,500	37,800	50,400
	Sensible Capacity	Btu/H	87,500	105,000	140,000
		Watt	25,638	30,765	41,020
		Kcal/h	22,050	26,460	35,280
	Nominal Airflow	CFM	4,200	4,600	6,400
CMM		118.9	130.3	181.2	
L/s		1,980	2,169	3,018	
Waterflow	L/s				
Static Pressure	mmAq / Pa	15.2 / 156.5			
DIMENSION	Unit Size	Height (Unit/Crated)	730mm / 950mm		885mm / 1,105mm
		Depth (Unit/Crated)	842mm / 1,125mm		
		Width (Unit/Crated)	1,664mm / 1,850mm		1,745mm / 1,930mm
		Weight			
	Casing Structure	Panel	Electro Galvanised Mild Steel		
Frame		Anodised Aluminium Extrusion			
Finishing		Plain Galvalum Finish / Polyester Powder Coating			
Insulation		1/2" Double Skin Insulated Panel encapsulated with PVC Trim			
FAN & DRIVE PACKAGE	Power Source	V/Ph/Hz	220 / 3 / 50		220 / 3 / 50
	Blower	Type / Drive	Forward Curved Centrifugal Belt Driven type of Galvanised Steel construction		
		Size	15-15		
	Motor	Type	TEFC, SCIM, Class F, IP55, Foot Mounted AC Induction Motor		
		Power	1.5 kW / 2.0 Hp		3.0 kW / 4.0 Hp
		V/Ph/Hz/Pole	220-380 / 3 / 50 / 4		
	Drive package	Blower Pulley	B1 x 8"		B1 x 7"
		Motor Pulley	B1 x 4"		
		V Belt Size / Qty	B43" (1 pc)		B41" (1 pc)
	COOLING COIL	Evaporator Coil	Type	Cross Finned Tubes	
Quantity per Set			1		
Tube		Material	Seamless Copper		
		Size	9.52mm / 3/8" (OD) x 0.35mm / 0.013" (wall thickness)		
Fin		Material	Plain / Hydrophilic Blue (Optional) Aluminium of thickness 0.115mm		
		Row	4		
		Fin pitch	2.117mm / 12fpi	1.814mm / 14fpi	2.117mm / 12fpi
Pipe	Header	50.8mm / 2"			
	Drain Pipe	25.4mm / 1"			
FILTER	Media	Type	Nominal 2" type of Synthetic Washable R15 with 70% Arrestance		
	Filter	Frame	Anodised Aluminium Frame (47mm) with Pleated GI Liner Backing.		
		Size	640mm(H) x 525mm(L)		795mm(H) x 550mm(L)
		Quantity per Set	3		

d. 18-18 Series

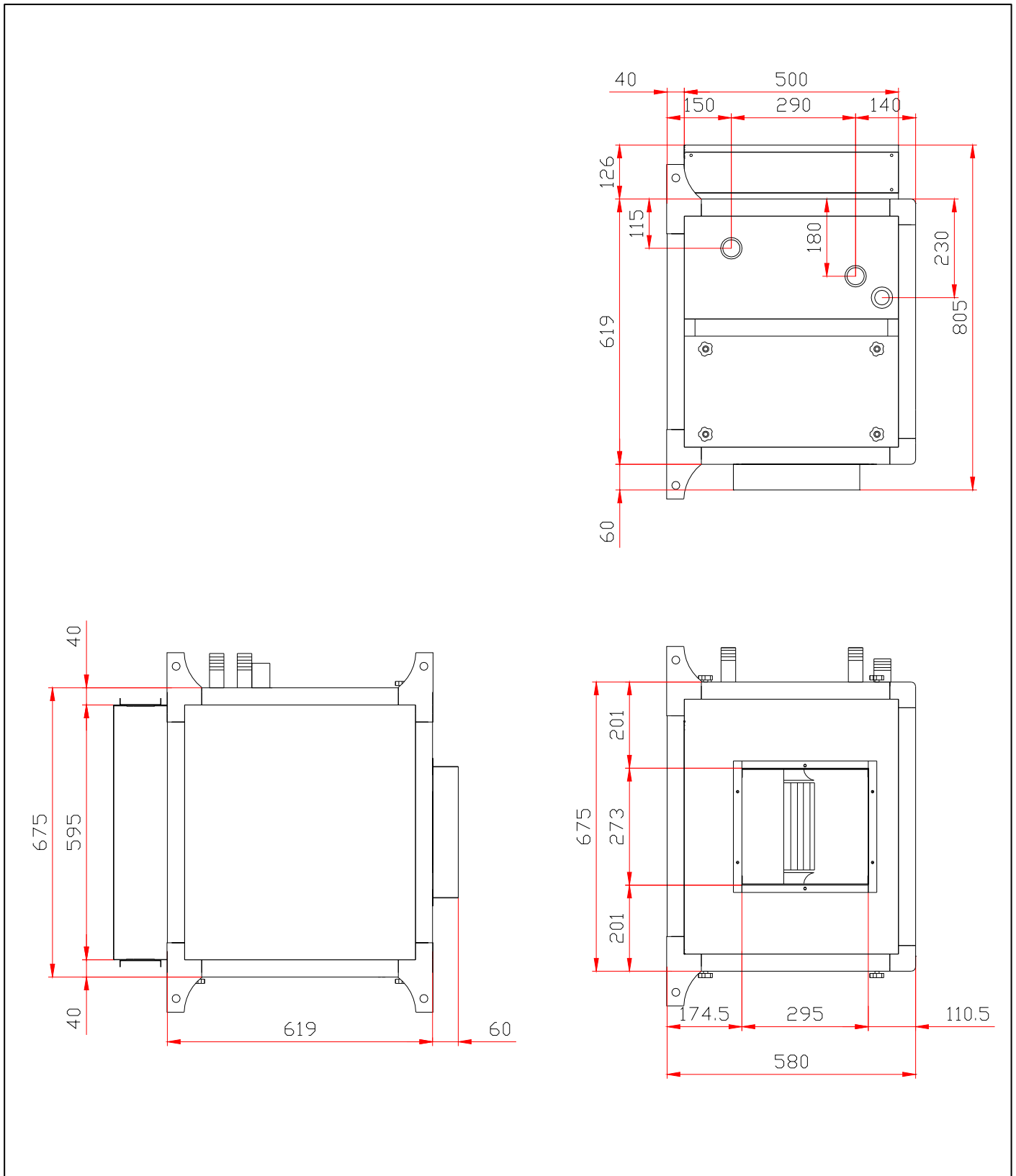
CW-DS05 SERIES		18-18 SERIES			
MODEL		SB-250-W-DS05-V1	SB-300-W-DS05-V1	SB-350-W-DS05-V1	
PERFORMANCE	Total Capacity	Btu/H	250,000	300,000	350,000
		Watt	73,250	87,900	102,550
		Kcal/h	63,000	75,600	88,200
	Sensible Capacity	Btu/H	175,000	210,000	245,000
		Watt	51,275	61,530	71,785
		Kcal/h	44,100	52,920	61,740
	Nominal Airflow	CFM	8,000	9,000	10,500
		CMM	226.5	254.9	297.3
L/s		3,772	4,244	4,951	
Waterflow	L/s				
Static Pressure	mmAq /Pa	20.3 / 208.6			
DIMENSION	Unit Size	Height (Unit/Crated)	1,192mm / 1,415mm	1,442mm / 1,665mm	
		Depth (Unit/Crated)	1,052mm / 1,335mm		
		Width (Unit/Crated)	1,716mm / 1,905mm	1,971mm / 2,160mm	
	Weight				
	Casing Structure	Panel	Electro Galvanised Mild Steel		
Frame		Anodised Aluminium Extrusion			
Finishing		Plain Galvalum Finish / Polyester Powder Coating			
Insulation		1/2" Double Skin Insulated Panel encapsulated with PVC Trim			
FAN & DRIVE PACKAGE	Power Source	V/Ph/Hz 220 / 3 / 50			
	Blower	Type / Drive	Forward Curved Centrifugal Belt Driven type of Galvanised Steel construction		
		Size	18-18		
	Motor	Type	TEFC, SCIM, Class F, IP55, Foot Mounted AC Induction Motor		
		Power	4.0 kW / 5.5 Hp	5.5 kW / 7.5 Hp	
		V/Ph/Hz/Pole	220-380 / 3 / 50 / 4		
	Drive package	Blower Pulley	B2 x 12"		
		Motor Pulley	B2 x 6.5"	B2 x 8"	
V Belt Size / Qty		B76" (2 pc)	B92" (2 pc)		
COOLING COIL	Evaporator Coil	Type	Cross Finned Tubes		
		Quantity per Set	1		
	Tube	Material	Seamless Copper		
		Size	9.52mm / 3/8" (OD) x 0.35mm / 0.013" (wall thickness)		
	Fin	Material	Plain / Hydrophilic Blue (Optional) Aluminium of thickness 0.115mm		
		Row	4	5	4
Fin pitch		1.814mm / 14fpi	2.117mm / 12fpi		
Pipe	Header	63.5mm / 2.5"			
	Drain Pipe	25.4mm / 1"			
FILTER	Media	Type Nominal 2" type of Synthetic Washable R15 with 70% Arrestance			
	Filter	Frame	Anodised Aluminium Frame (47mm) with Pleated GI Liner Backing.		
		Size	550mm(H) x 540mm(L)	675mm (H) x 625mm(L)	
		Quantity per Set	6		

e. 22-22 Series and 30-28 Series

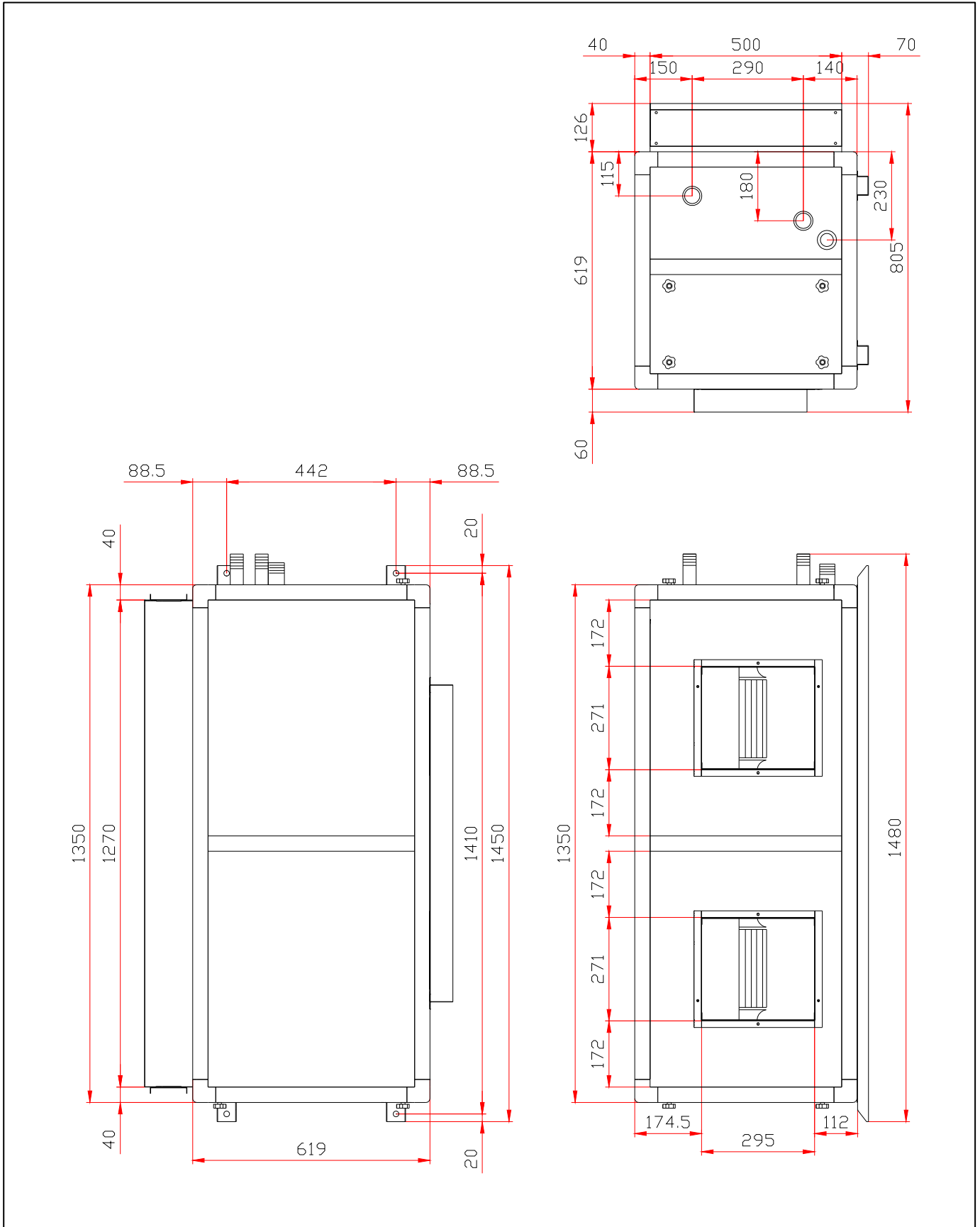
CW-DS05 SERIES		22-22 SERIES			30-28 SERIES		
MODEL		SB-400-W-DS05-V1	SB-450-W-DS05-V1	SB-500-W-DS05-V1	SB-600-W-DS05-V2	SB-750-W-DS05-V2	
PERFORMANCE	Total Capacity	Btu/H	400,000	450,000	450,001	600,000	750,000
		Watt	117,200	131,850	131,850	175,800	219,750
		Kcal/h	100,800	113,400	113,400	151,200	189,000
	Sensible Capacity	Btu/H	280,000	315,000	315,001	420,000	525,000
		Watt	82,040	92,295	92,295	123,060	153,825
		Kcal/h	70,560	79,380	79,380	105,840	132,300
	Nominal Airflow	CFM	12,000	15,000	15,000	18,000	22,500
		CMM	339.8	424.8	424.8	509.7	637.1
		L/s	5,658	7,073	7,073	8,487	10,609
	Waterflow	L/s					
Static Pressure	mmAq /Pa	25.4 / 260.8			30.5 / 313.1	30.5 / 313.1	
DIMENSION	Unit Size	Height (Unit/Crated)	1,442mm / 1,665mm			1,842mm / 2,065mm	2,142mm / 2,365mm
		Depth (Unit/Crated)	1,310mm / 1,595mm			1,800mm / 2,085mm	
		Width (Unit/Crated)	2,126mm / 2,315mm			2,154mm / 2,340mm	
		Weight					
	Casing Structure	Panel	Electro Galvanised Mild Steel				
Frame		Anodised Aluminium Extrusion					
Finishing		Plain Galvalum Finish / Polyester Powder Coating					
Insulation		1/2" Double Skin Insulated Panel encapsulated with PVC Trim					
FAN & DRIVE PACKAGE	Power Source	V/Ph/Hz	380 / 3 / 50				
	Blower	Type / Drive	Forward Curved Centrifugal / Belt Driven				
		Size	22-22		30-28		
	Motor	Type	TEFC, SCIM, Class F, IP55, Foot Mounted AC Induction Motor				
		Power	5.5 kW / 7.5 Hp	7.5 kW / 10.0 Hp	11.0 kW / 15.0 Hp		15.0 kW / 20.0 Hp
		V/Ph/Hz/Pole	380-660 / 3 / 50 / 4				
	Drive package	Blower Pulley	B3 x 13"	B3 x 12"	B3 x 13"	B3 x 18"	B3 x 18"
		Motor Pulley	B3 x 5.5"		B3 x 6.0"		B3 x 7"
		V Belt Size / Qty	B90" (3 pc)	B87" (3 pc)		B100" (3 pc)	B100" (3 pc)
	COOLING COIL	Evaporator Coil	Type	Cross Finned Tubes			
Quantity per Set			1		2		
Tube		Material	Seamless Copper				
		Size	9.52mm / 3/8" (OD) x 0.35mm / 0.013" (wall thickness)				
Fin		Material	Plain / Hydrophilic Blue (Optional) Aluminium of thickness 0.115mm				
		Row	4		5		6
		Fin pitch	1.814mm / 14fpi		2.117mm / 12fpi		
Pipe	Header	76.2mm / 3"					
	Drain Pipe	25.4mm / 1"					
FILTER	Media	Type	Nominal 2" type of Synthetic Washable R15 with 70% Arrestance				
		Frame	Anodised Aluminium Frame (48mm) with Pleated GI Liner Backing.				
	Filter	Size	675mm(H) x 675mm(L)			585mm(H) x 685mm(L)	685mm(H) x 685mm(L)
		Quantity per Set	6			9	

7. OUTLINE DRAWINGS : CW-DS05 Series

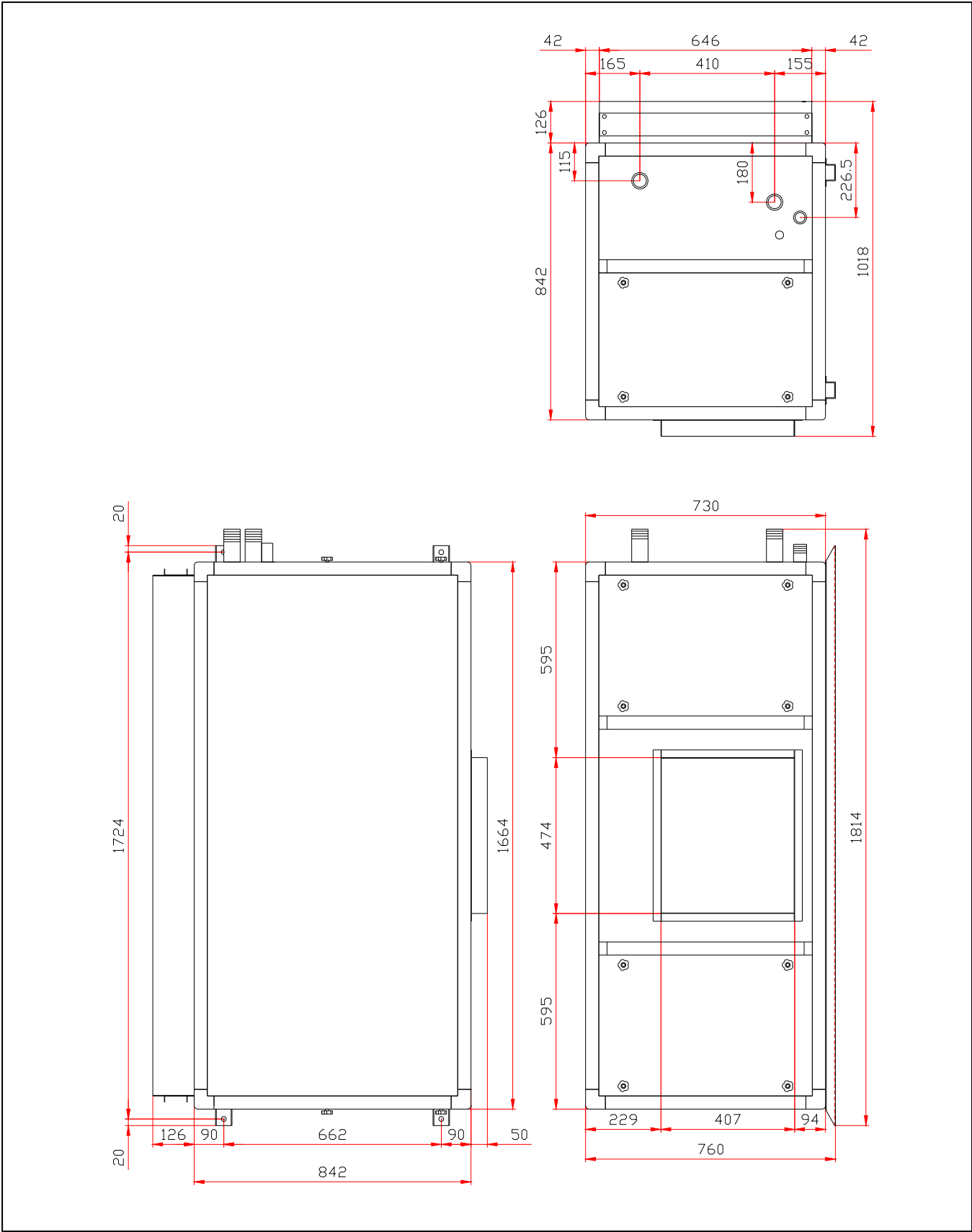
a. SB-040/050-W-DS05-H1(10-8)



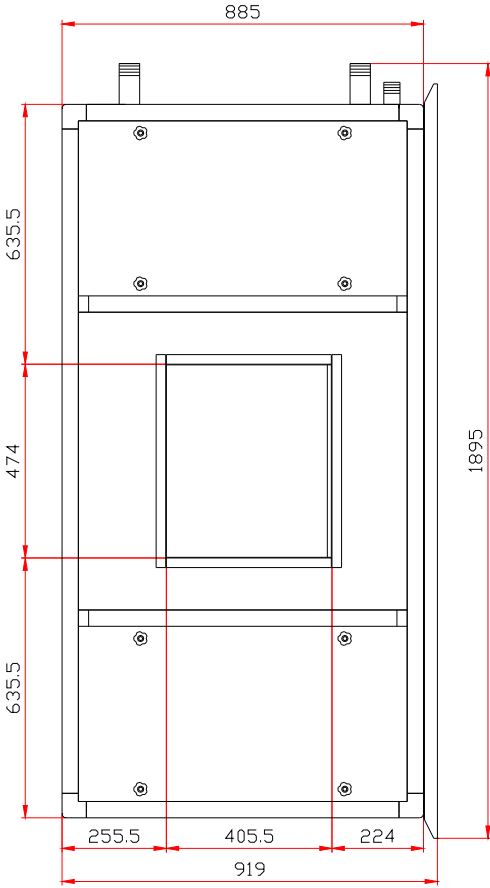
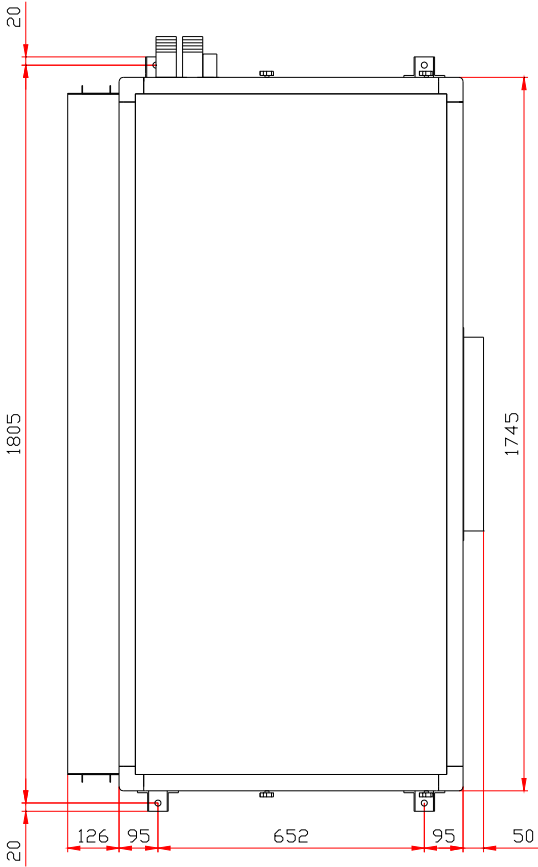
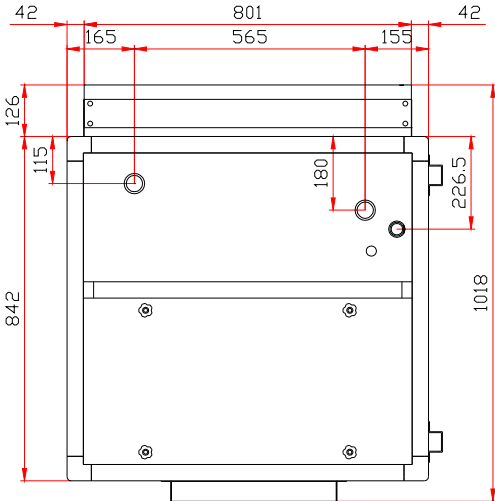
b. SB-060/075/100-W-DS05-H1(10-8)



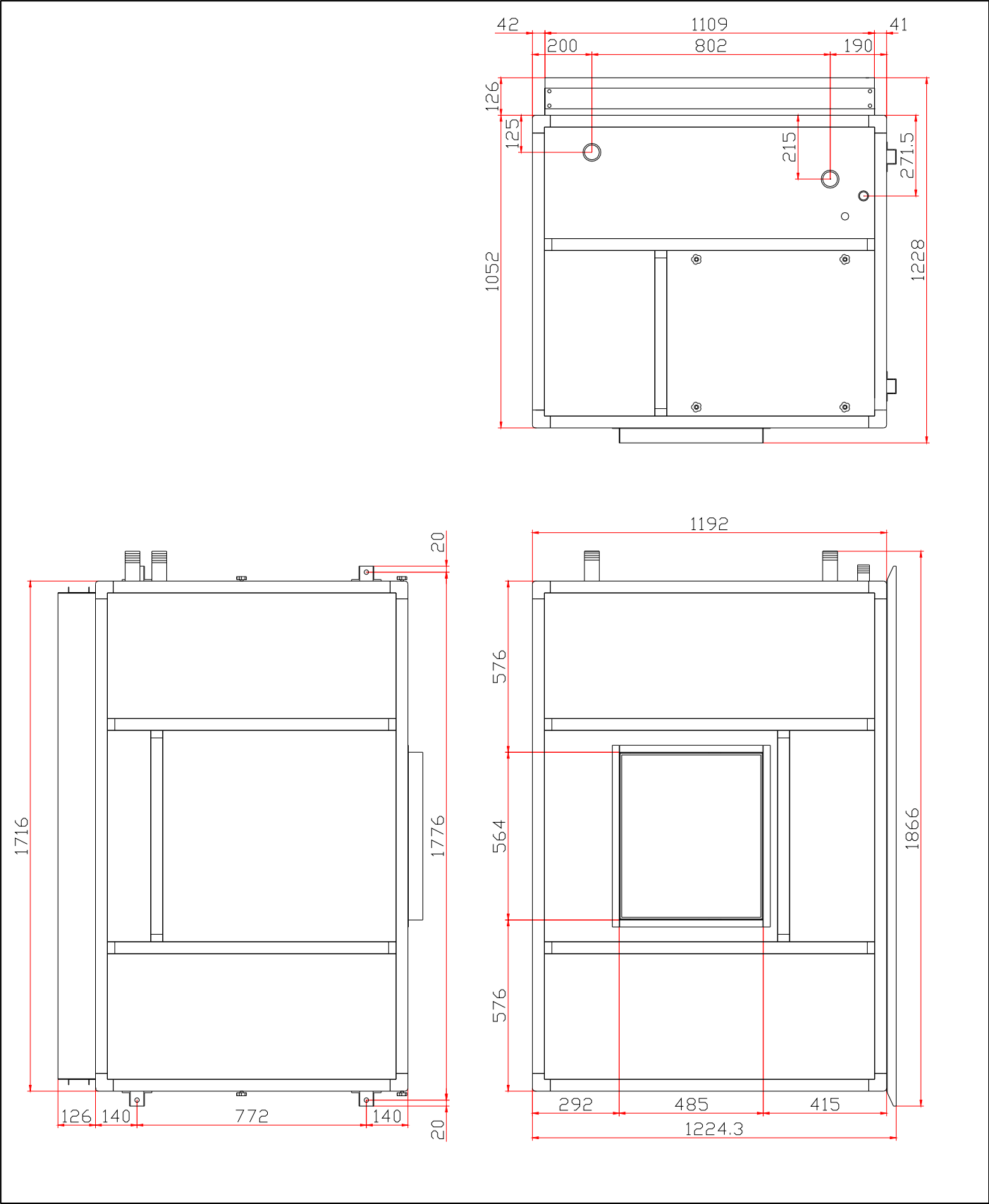
c. SB-125/150-W-DS05-H1(15-15)



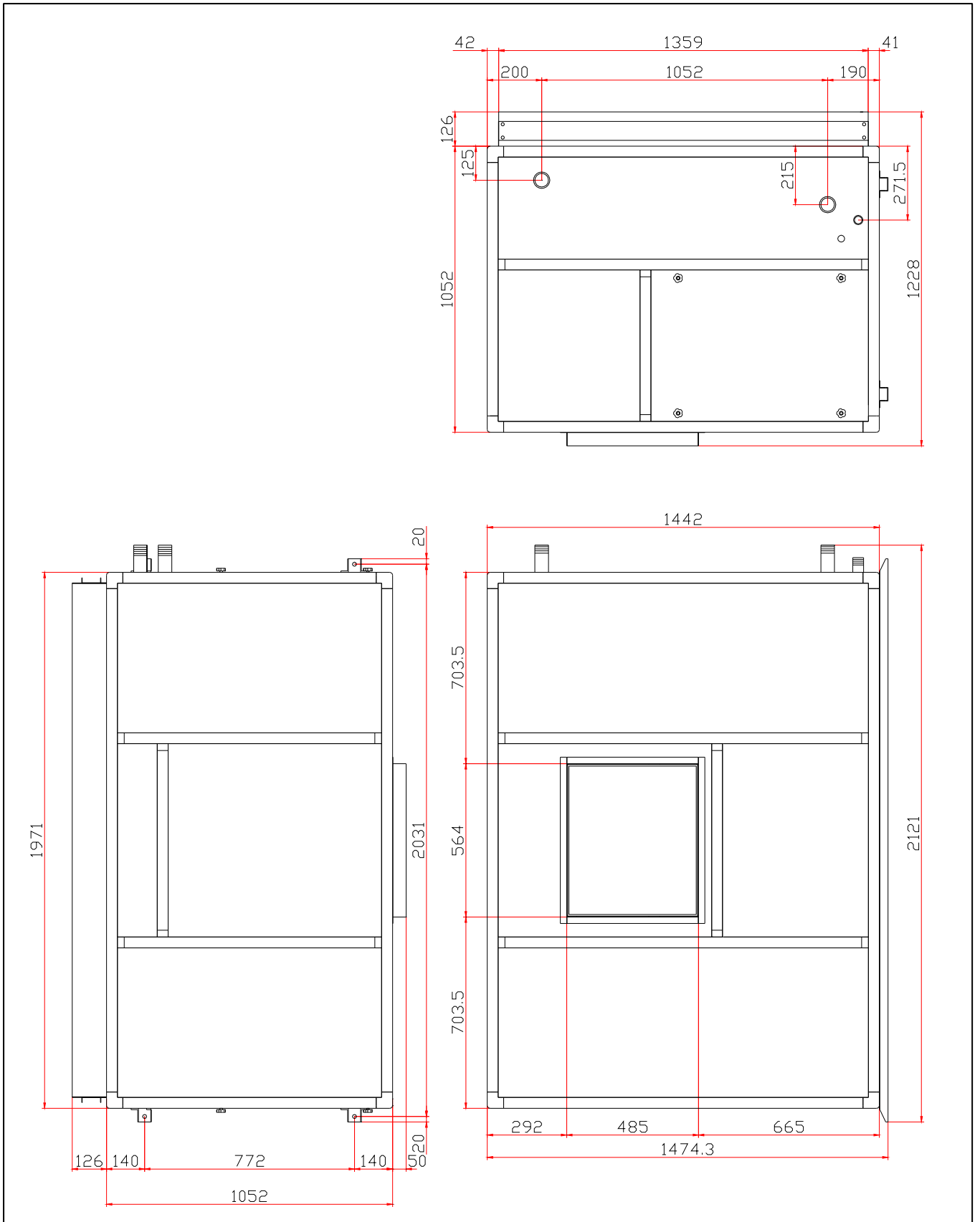
d. SB-200-W-DS05-H1(15-15)



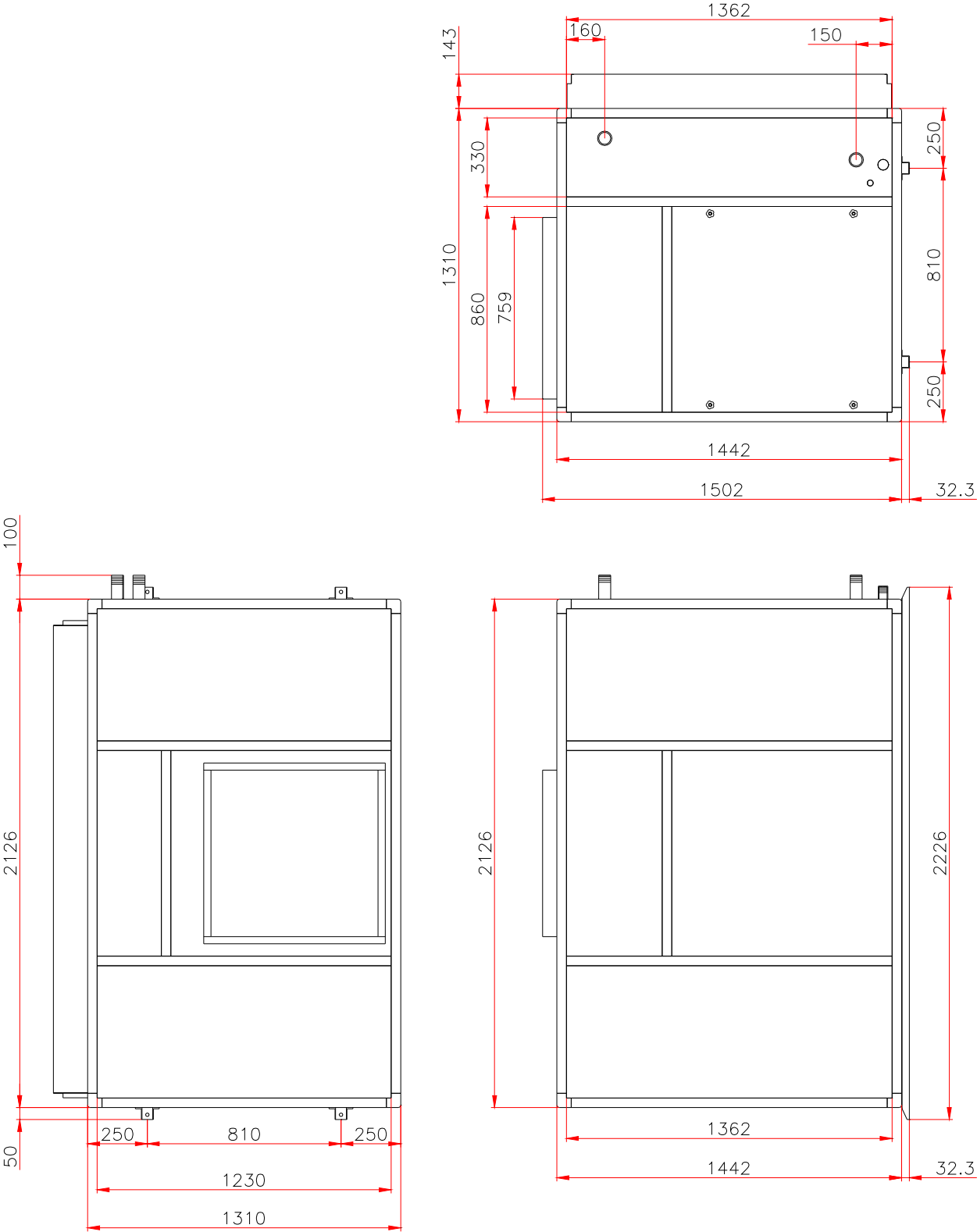
e. SB-250/300-W-DS05-H1(18-18)



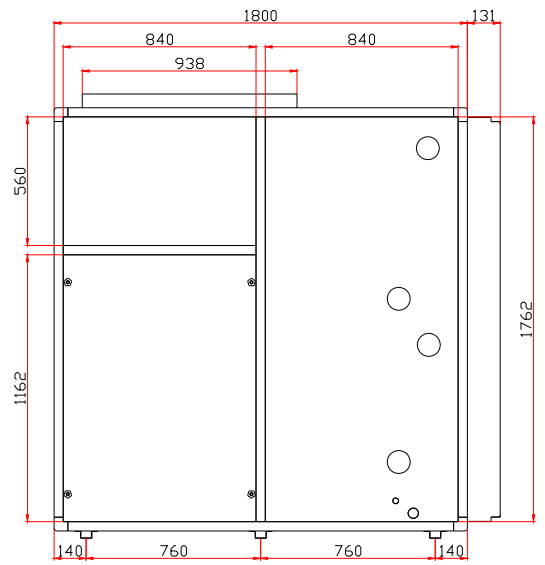
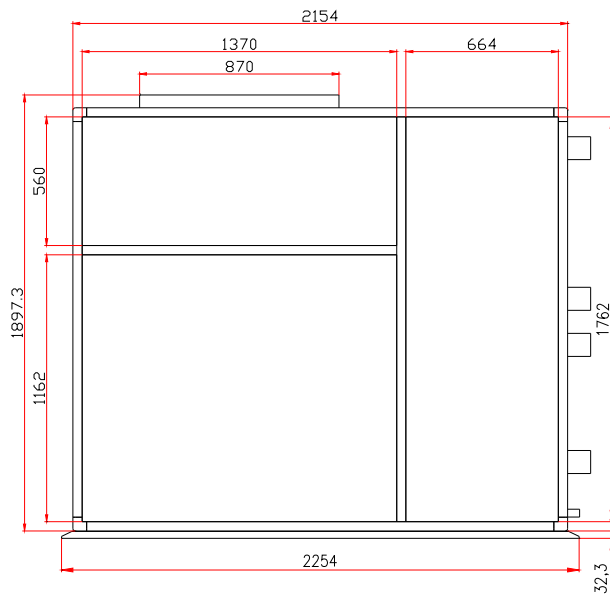
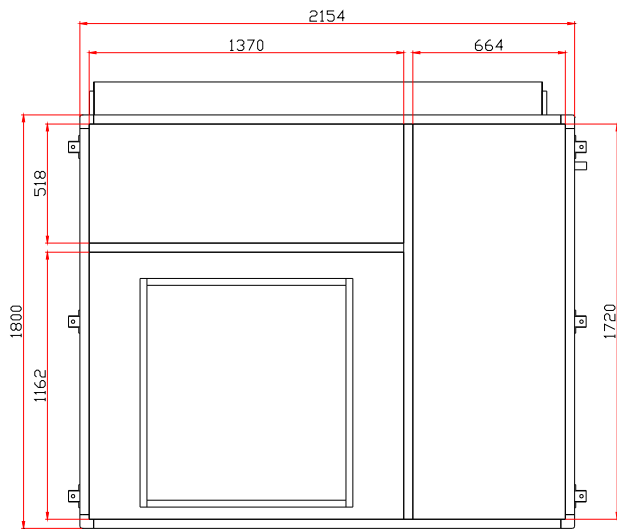
f. SB-350-W-DS05-H1(18-18)



g. SB-400/450/500-W-DS05-H1(22-22)



h. SB-600-W-DS05-H2(30-28)



i. SB-750-W-DS05-H2(30-28)

