



GENERAL CATALOG

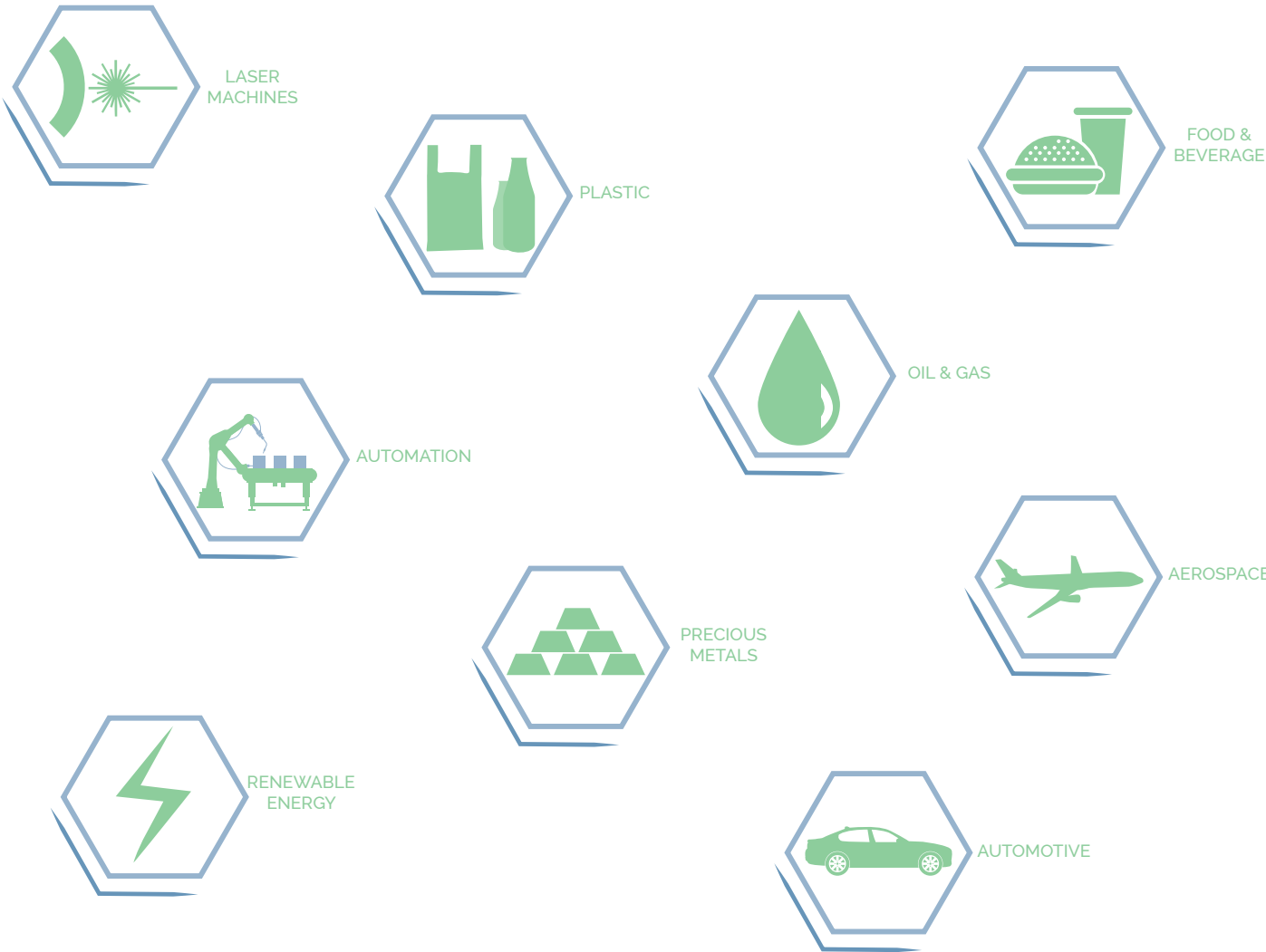
2020

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Applications

Process Cooling & Industrial Applications



Cosmotec



Cooling Technology Leader

Since 1989 Cosmotec has been among the leading producers of enclosure cooling systems around the world.

Technology, innovation, quality and flexibility define who Cosmotec is at its core.

These qualities are the fundamental building blocks of the UL products for use in the United States.



Research and Development

Investment in research and development, the application of new technologies and the use of high quality components form the basis of the Cosmotec product offering. Cosmotec products deliver the widest range of possible solutions for our customers while maintaining superior production standards. Cosmotec also boasts a Certified UL Test Client Site facility for streamlining testing procedures and UL filings.



World Class Design in a World Class Facility

Our technical group works to deliver the highest quality product through an efficient and effective design. We pride ourselves in pushing the envelope to find new ways to improve our products and deliver outstanding performance for our customers. Each unit is fully tested before leaving our world class facility.

We pledge to provide our customers with high quality products, great value and after sales support that makes them lifelong customers.

Warranty/Service

We pride ourselves on our sales support network that covers the United States, as well as 70 countries worldwide. The process in the United States is streamlined through our Frederick, MD facility to help minimize the hassle of coordinating the service needs of your system.

For any project that needs attention you can reach us through the following channels:

Email: technicalsupport@cosmotec-us.com

Phone: 888.529.1266





Protherm - Indoor / Outdoor

Wall Mounted A/C

General Features Protherm Indoor

- Cooling Capacity 1,296 - 20,302 BTU
- CVE (07/15/25)00S available for semi-flush mounting
- Electronic Board XCB + display
- SEM and SEM² functions (with accessory)
- Sequencing and Modbus (with accessories)
- Condensate dissipating device from CVE11 and on CVE0700S
- Quick connections (CE version except CVE03)
- µchannel condenser (from CVE11 + CVE0700S)
- General Alarm contacts and remote control std (except CVE03)



General Features Protherm Outdoor

- Cooling Capacity 1,706 - 20,300 BTU
- Electronic Board XCB + display (accessory)
- SEM and SEM² functions (with accessory)
- Sequencing and Modbus (with accessories)
- Quick connections (CE version)
- µchannel condenser (from CVO11)
- General Alarm contacts and remote control std
- Functioning up to - 40°C for UL listed models
- Standard protective treatment on the condenser for UL Listed models





OPTIONAL

CODE	Special Colour	INOX AISI304 Housing	INOX AISI316 Housing	LN Version	Control Phase Module	Protective Treatment on Condenser Coil
CVE03	OCASC03	OCAINI0403	OCAINI1603	--	--	OCATC03
CVE05	OCASC05	OCAINI0405	OCAINI1605	OCALN05 ⁽¹⁾	--	OCATC05
CVE08	OCASC05	OCAINI0405	OCAINI1605	OCALN08 ⁽¹⁾	--	OCATC05
CVE11	OCASC05	OCAINI0411	OCAINI1611	OCALN08 ⁽¹⁾	--	OCATC11
CVE15	OCASC05	OCAINI0411	OCAINI1611	OCALN08 ⁽¹⁾	OCACFM (1)	OCATC11
CVE20	OCASC05	OCAINI0411	OCAINI1611	OCALN20 ⁽¹⁾	OCACFM (1)	OCATC11
CVE30	OCASC30	OCAINI0430	OCAINI1630	OCALN20 ⁽¹⁾	OCACFM (1)	--
CVE40	OCASC30	OCAINI0430	OCAINI1630	OCALN40 ⁽¹⁾	OCACFM (1)	OCATC40
CVE60	OCASC60	OCAINI0460	OCAINI1660	OCALN60 ⁽¹⁾	OCACFM	OCATC40

(1) Not available for 115V tension

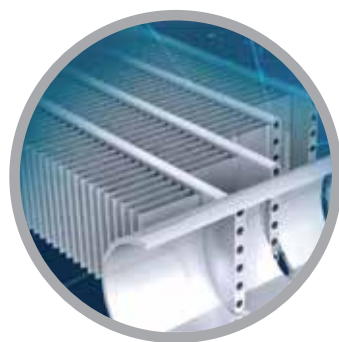
ACCESSORIES

CODE	Filter	Baffle	Semi-Flush Mounting Frame	Flush Mounting Frame	Sequencing Cable	Serial Port for Modbus	Remote Probe SE ²
CVE03	--	ACABAF03	--	--	--	--	--
CVE05	ACAFLT105	ACABAF05	ACASEF05	ACATEF05	ACASEQ	ACASPM	ACARES
CVE08	ACAFLT105	ACABAF05	ACASEF05	ACATEF05	ACASEQ	ACASPM	ACARES
CVE11	ACAFLT111	ACABAF11	ACASEF11	ACATEF11	ACASEQ	ACASPM	ACARES
CVE15	ACAFLT111	ACABAF11	ACASEF11/20 ⁽¹⁾	ACATEF11/20 ⁽¹⁾	ACASEQ	ACASPM	ACARES
CVE20	ACAFLT111	ACABAF11	ACASEF20	ACATEF20	ACASEQ	ACASPM	ACARES
CVE30	ACAFLT130	ACABAF30	ACASEF30	ACATEF30	ACASEQ	ACASPM	ACARES
CVE40	ACAFLT130	ACABAF30	ACASEF30	ACATEF30	ACASEQ	ACASPM	ACARES
CVE60	ACAFLT160	ACABAF60	ACASEF60	ACATEF60	ACASEQ	ACASPM	ACARES

(1) Check the model

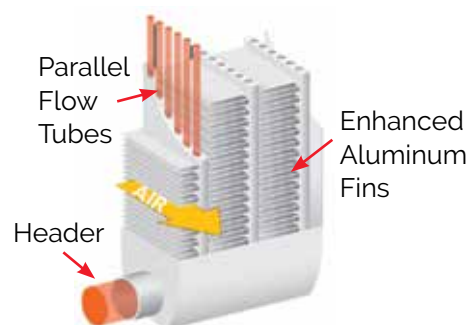
Micro Channel Condenser Coils: The big benefit of a smaller package

It has been said that great things come in small packages, and Cosmotec's Microchannel Condenser Coils are no exception. Cosmotec has developed a condenser technology for air conditioners that allows us to save space, use less refrigerant, reduce weight, minimize coil oxidation and increase performance all at the same time. By adapting philosophies from the Automotive Industry we have developed our new Micro Channel Condensing Coil to improve the performance of our air conditioners.



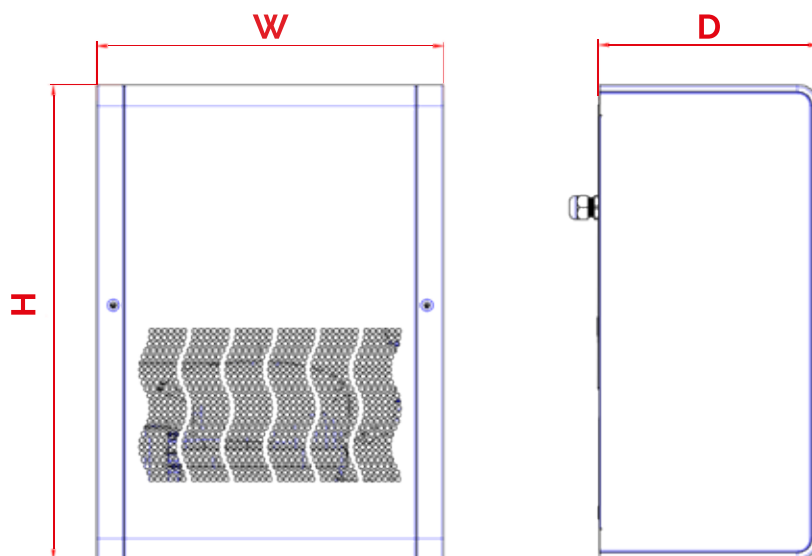
MicroChannel Design

- Smaller Footprint (40% of Original Design)
- Lighter Weight
- Reduction of Refrigerant volume
- Reduced Maintenance
- Elimination of Coil Oxidation
- Improved Performance





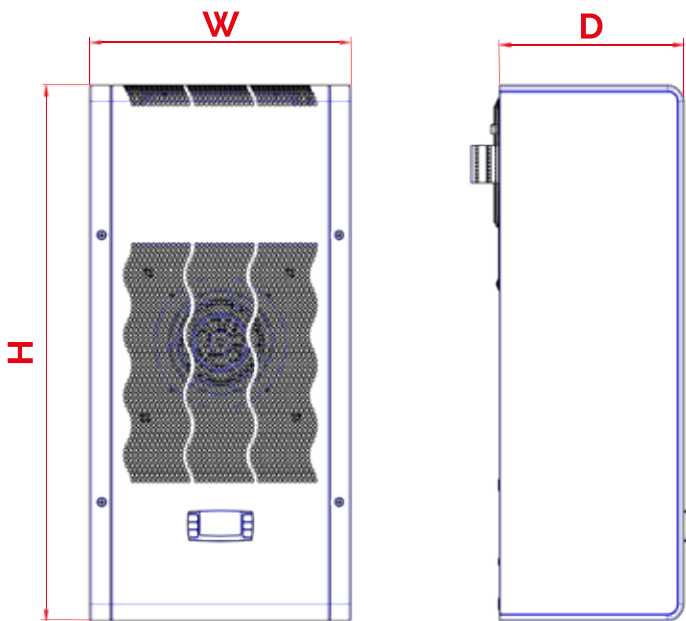
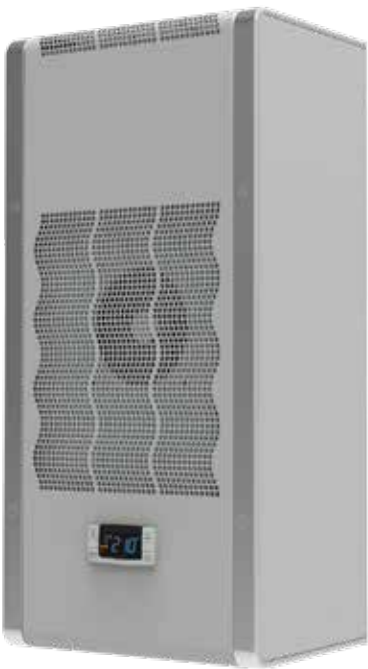
Protherm Indoor - CVE03



Model	M.U.	CVE03U12030000	CVE03U12200000
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	1296 (380)	1296 (380)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	819 (240)	819 (240)
UL		.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60
Height/Width/Depth - (HxWxD)	mm	443 x 324.5 x 206	443 x 324.5 x 206
Height/Width/Depth - (HxWxD)	in	17 x 13 x 8	17 x 13 x 8
Absorbed Current	A	2.9	1.7
Starting Current	A	18	9.8
PreFuse T	A	15	15
Power Consumption	W	220	220
Cabinet Temperature Limits	°F (°C)	77 / 113 (25 / 45)	77 / 113 (25 / 45)
Ambient Temperature Limits	°F (°C)	68 / 131 (20 / 55)	68 / 131 68 / 131 (20 / 55)
Cabinet Protection Degree	IP / Type	- / 12	- / 12
Noise Level	dB(A)	52	52
Weight	lbs (kg)	37.5 (17)	37.5 (17)



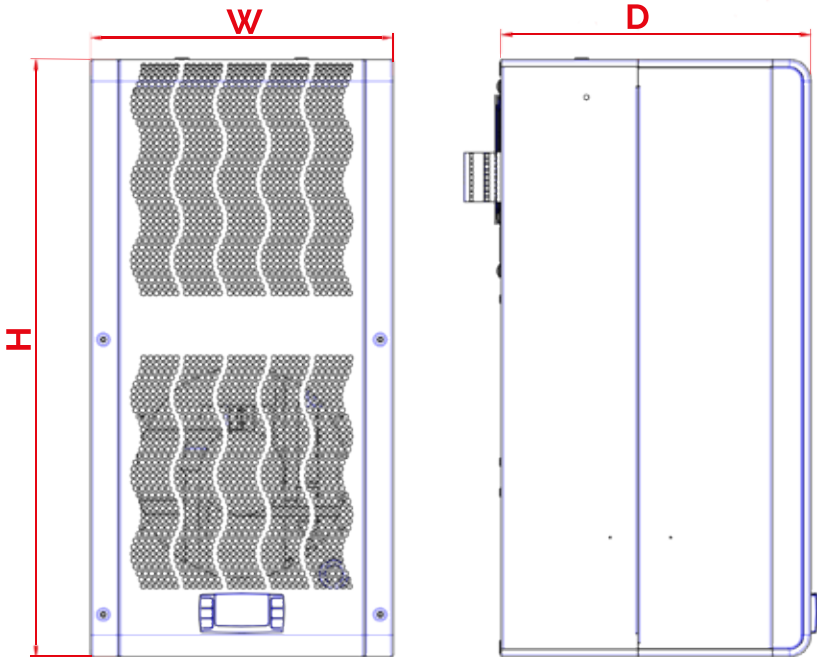
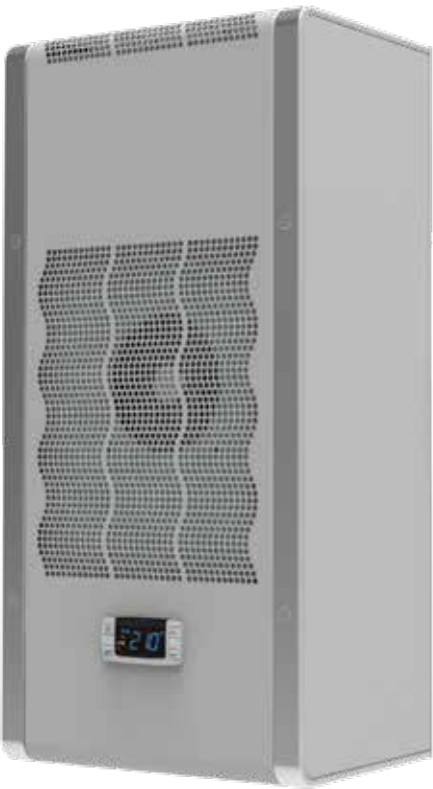
Protherm Indoor - CVE05



Model	M.U.	CVE05U12038000	CVE05U12208000	CVE05U12128000
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	1979 (580)	1979 (580)	1706 (500)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	1467 (430)	1467 (430)	1194 (350)
UL	--	.	.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60	48VDC
Height/Width/Depth - (HxWxD)	mm	642 x 314.5 x 223	642 x 314.5 x 223	642 x 314.5 x 223
Height/Width/Depth - (HxWxD)	in	25 x 12 x 9	25 x 12 x 9	25 x 12 x 9
Absorbed Current	A	4.7	2.1	6.1
Starting Current	A	17	7.5	-
PreFuse T	A	15	15	15
Power Consumption	W	390	390	300
Cabinet Temperature Limits	°F (°C)	77 / 113 (25 / 45)	77 / 113 (25 / 45)	77 / 95 (25 / 35)
Ambient Temperature Limits	°F (°C)	68 / 131 (20 / 55)	68 / 131 (20 / 55)	68 / 131 (20 / 55)
Cabinet Protection Degree	IP/Type	- / 12	- / 12	- / 12
Noise Level	dB(A)	60	60	64
Weight	lbs (kg)	51 (23)	51 (23)	51 (23)

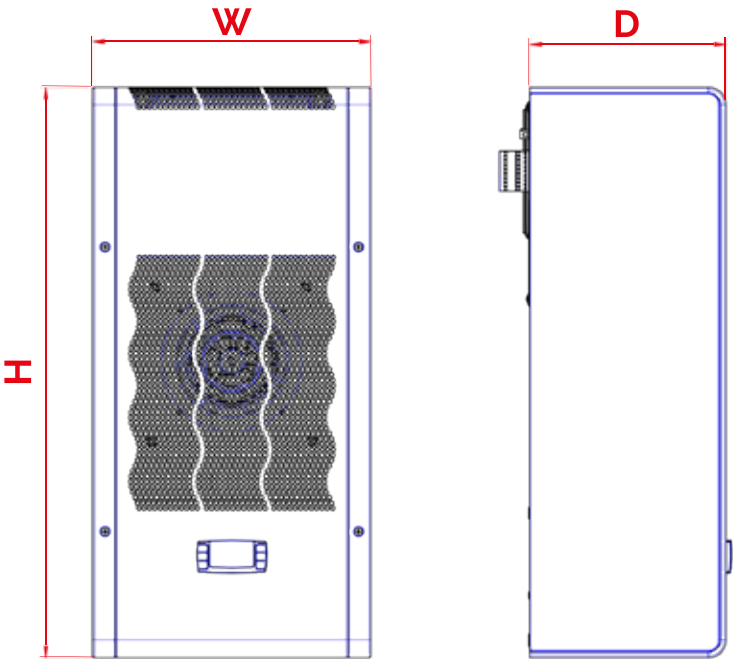


Protherm Indoor - CVEo8



Model	M.U.	CVEo8U12038000	CVEo8U12208000
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	3069 (900)	3069 (900)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	2388 (700)	2388 (700)
UL		.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60
Height/Width/Depth - (HxWxD)	mm	642 x 314.5 x 223	642 x 314.5 x 223
Height/Width/Depth - (HxWxD)	in	25 x 12 x 9	25 x 12 x 9
Absorbed Current	A	7.2	3.9
Starting Current	A	28	20
PreFuse T	A	15	15
Power Consumption	W	600	600
Cabinet Temperature Limits	°F (°C)	77 / 113 (25 / 45)	77 / 113 (25 / 45)
Ambient Temperature Limits	°F (°C)	68 / 131 (20 / 55)	68 / 131 (20 / 55)
Cabinet Protection Degree	IP / Type	- / 12	- / 12
Noise Level	dB(A)	64	64
Weight	lbs (kg)	59.5 (27)	59.5 (27)

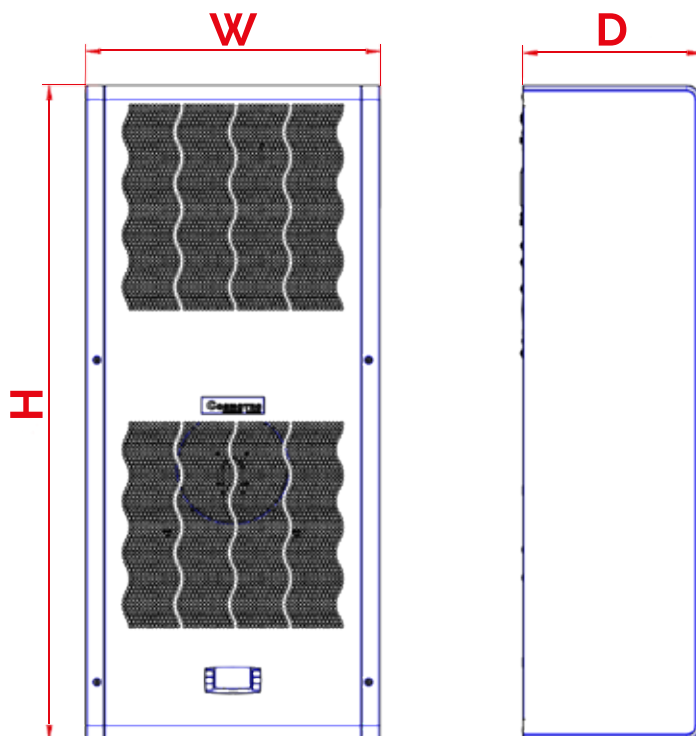
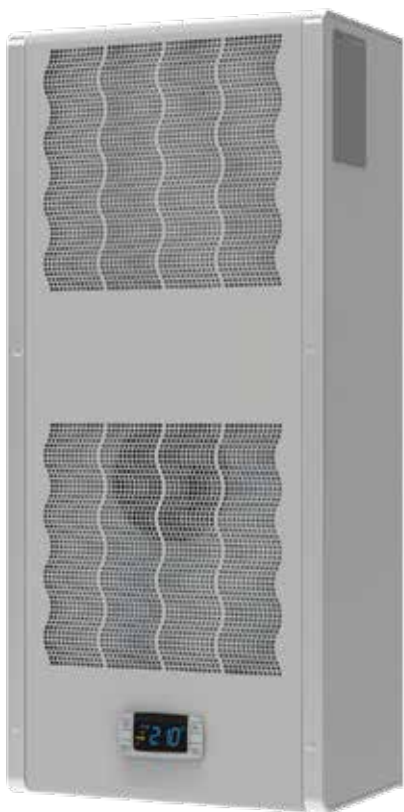
Protherm Indoor - CVE11



Model	M.U.	CVE11U12038000	CVE11U12208000
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	3923 (1150)	3923 (1150)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	3036 (890)	3036 (890)
UL		.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60
Height/Width/Depth - (HxWxD)	mm	913 x 413 x 248	913 x 413 x 248
Height/Width/Depth - (HxWxD)	in	36 x 16 x 10	36 x 16 x 10
Absorbed Current	A	7.5	3.6
Starting Current	A	34	20
PreFuse T	A	15	15
Power Consumption	W	650	650
Cabinet Temperature Limits	°F (°C)	77 / 131 (25 / 45)	77 / 131 (25 / 45)
Ambient Temperature Limits	°F (°C)	68 / 131 (20 / 55)	68 / 131 (20 / 55)
Cabinet Protection Degree	IP / Type	- / 12	- / 12
Noise Level	dB(A)	65	65
Weight	lbs (kg)	97 (44)	97 (44)



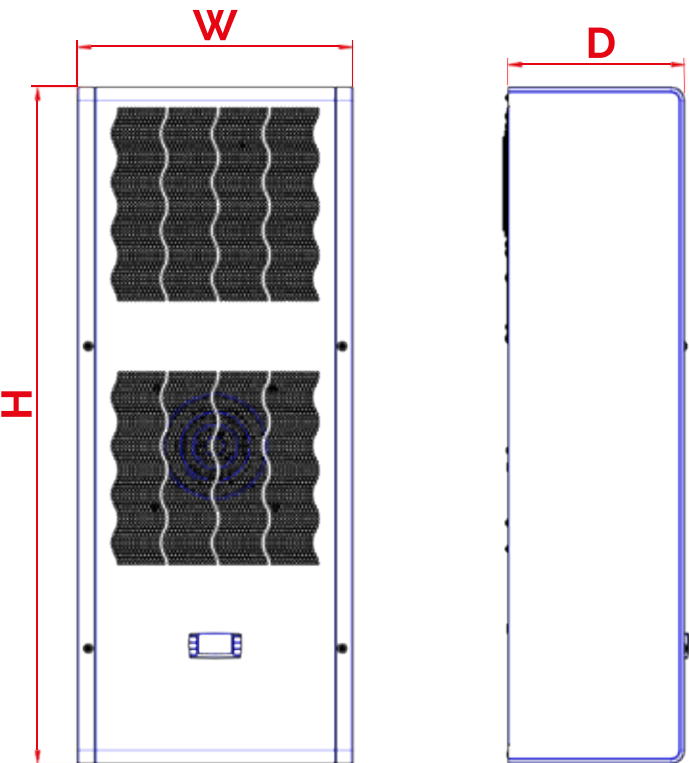
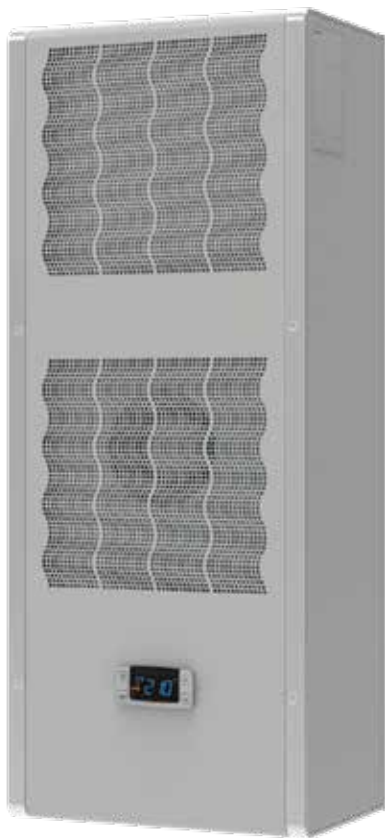
Protherm Indoor - CVE15



Model	M.U.	CVE15U12038000	CVE15U12208000	CVE15U12628000
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	5459 (1600)	5459 (1600)	5118 (1500)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	4367 (1280)	4367 (1280)	4094 (1200)
UL		.	.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60	400/460-3-50/60
Height/Width/Depth - (HxWxD)	mm	913 x 413 x 248	913 x 413 x 248	1005 x 413 x 263
Height/Width/Depth - (HxWxD)	in	36 x 16 x 10	36 x 16 x 10	39,5 x 16 x 10
Absorbed Current	A	9.4	4.5	2.37
Starting Current	A	50	28	20
PreFuse T	A	15	15	15
Power Consumption	W	825	825	890
Cabinet Temperature Limits	°F (°C)	77 to 113 (25 to 45)	77 to 113 (25 to 45)	77 to 113 (25 to 45)
Ambient Temperature Limits	°F (°C)	68 to 131 (20 to 55)	68 to 131 (20 to 55)	68 to 131 (20 to 55)
Cabinet Protection Degree	IP / Type	- / 12	- / 12	- / 12
Noise Level	dB(A)	65	65	65
Weight	lbs (kg)	101 (46)	101 (46)	106 (48)



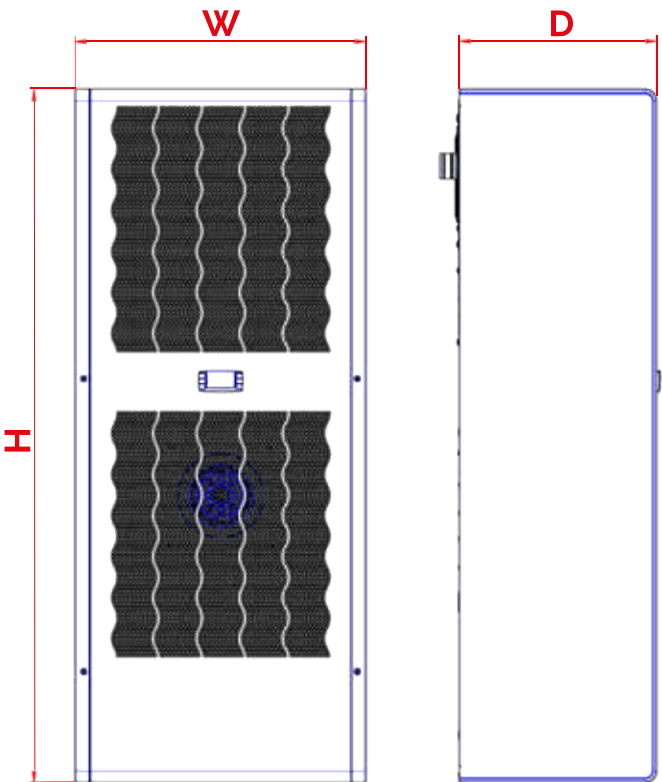
Protherm Indoor - CVE20



Model	M.U.	CVE20U12038000	CVE20U12208000	CVE20U12628000
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	7506 (2200)	7506 (2200)	7165 (2100)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	6312 (1850)	6312 (1850)	6142 (1800)
UL		.	.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60	400/460-3-50/60
Height/Width/Depth - (HxWxD)	mm	1005 x 413 x 263	1005 x 413 x 263	1005 x 413 x 263
Height/Width/Depth - (HxWxD)	in	39.5 x 16 x 10	39.5 x 16 x 10	39.5 x 16 x 10
Absorbed Current	A	13.64	6.3	3.62
Starting Current	A	60	34	22
PreFuse T	A	25	15	15
Power Consumption	W	1240	1240	1200
Cabinet Temperature Limits	°F (°C)	77 to 113 (25 to 45)	77 to 113 (25 to 45)	77 to 113 (25 to 45)
Ambient Temperature Limits	°F (°C)	68 to 131 (20 to 55)	68 to 131 (20 to 55)	68 to 131 (20 to 55)
Cabinet Protection Degree	IP / Type	- / 12	- / 12	- / 12
Noise Level	dB(A)	66	66	66
Weight	lbs (kg)	106 (48)	106 (48)	106 (48)



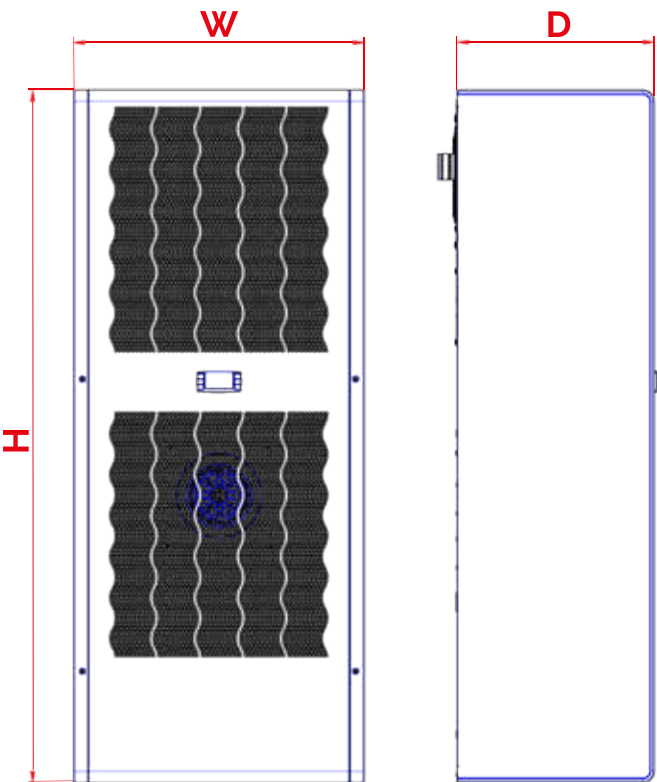
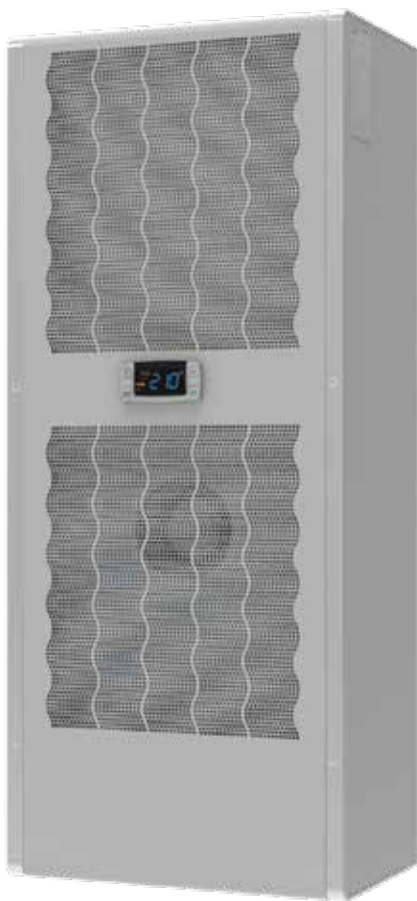
Protherm Indoor - CVE30



Model	M.U.	CVE30U12208000	CVE30U12628000
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	10748 (3150)	10236 (3000)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	8871 (2600)	8530 (2500)
UL		.	.
Power Supply	V-ph-Hz	230-1-50/60	400/460-3-50/60
Height/Width/Depth - (HxWxD)	mm	1219x514x3475	1219x514x3475
Height/Width/Depth - (HxWxD)	in	48 x 20 x 14	48 x 20 x 14
Absorbed Current	A	8	4.85
Starting Current	A	35	19
PreFuse T	A	15	15
Power Consumption	W	1510	1510
Cabinet Temperature Limits	°F (°C)	77 to 113 (25 to 45)	77 to 113 (25 to 45)
Ambient Temperature Limits	°F (°C)	68 to 131 (20 to 55)	68 to 131 (20 to 55)
Cabinet Protection Degree	IP / Type	- / 12	- / 12
Noise Level	dB(A)	67	67
Weight	lbs (kg)	165 (75)	176 (80)



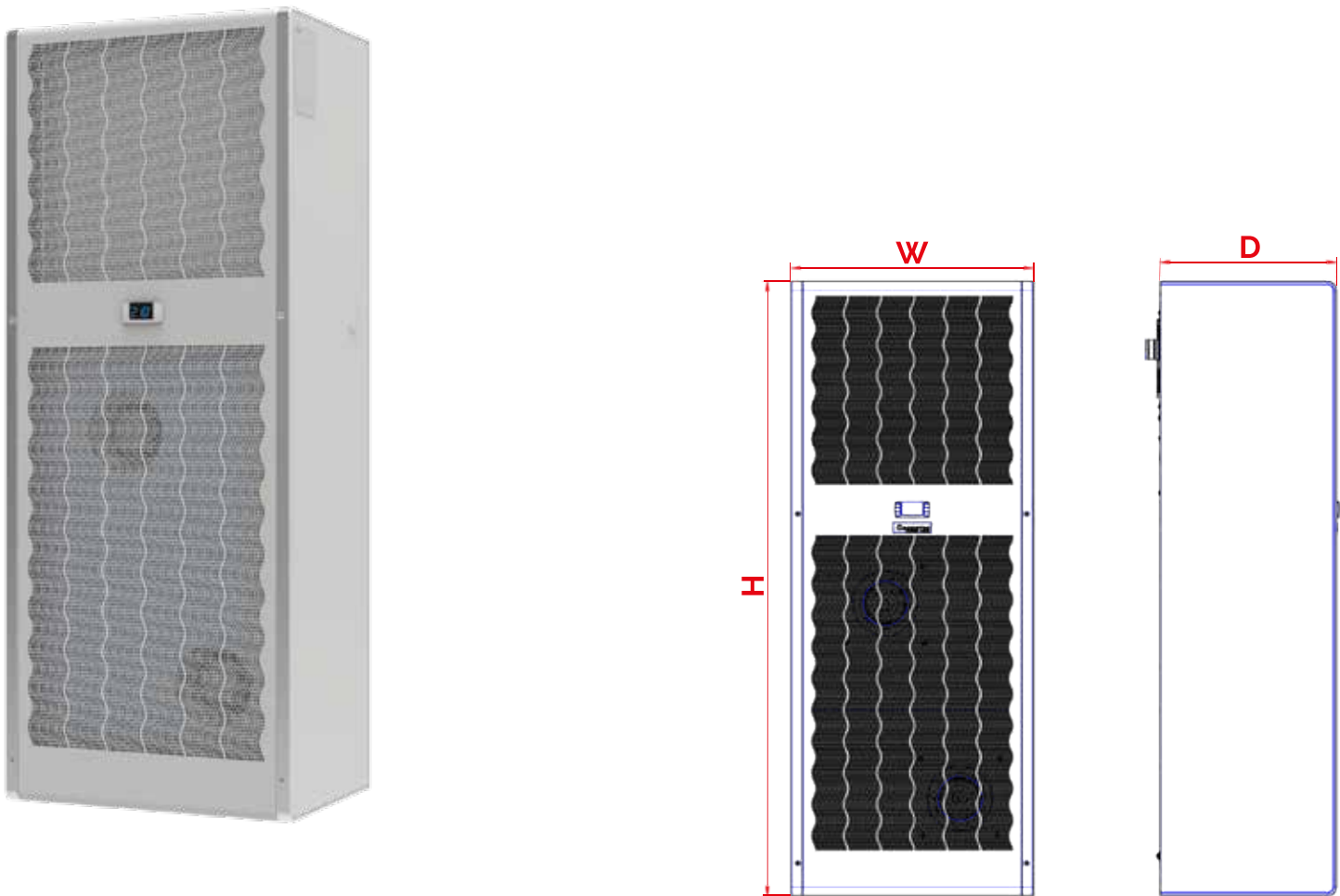
Protherm Indoor - CVE40



Model	M.U.	CVE40U12208000	CVE40U12628000
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	13989 (4100)	13819 (4050)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	11260 (3300)	11123 (3260)
UL		.	.
Power Supply	V-ph-Hz	230-1-50/60	400/460-3-50/60
Height/Width/Depth - (HxWxD)	mm	1219 x 514 x 3475	1219 x 514 x 3475
Height/Width/Depth - (HxWxD)	in	48 x 20 x 14	48 x 20 x 14
Absorbed Current	A	8.3	5.96
Starting Current	A	35	19
PreFuse T	A	15	15
Power Consumption	W	1950	1950
Cabinet Temperature Limits	°F (°C)	77 to 113 (25 to 45)	77 to 113 (25 to 45)
Ambient Temperature Limits	°F (°C)	68 to 131 (20 to 55)	68 to 131 (20 to 55)
Cabinet Protection Degree	IP / Type	- / 12	- / 12
Noise Level	dB(A)	67	67
Weight	lbs (kg)	176 (80)	187 (85)



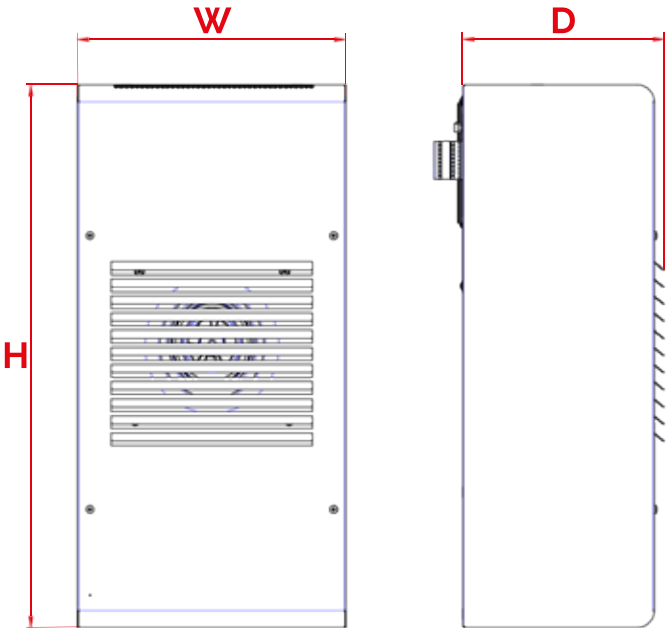
Protherm Indoor - CVE60



Model	M.U.	CVE60U12628000	CVE60U12018000
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	20302 (5950)	18600 (5450)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	16548 (4850)	15184 (4450)
UL		.	.
Power Supply	V-ph-Hz	400/460-3-50/60	230-1-60
Height/Width/Depth - (HxWxD)	mm	1406 x 556 x 403	1430 x 556 x 416
Height/Width/Depth - (HxWxD)	in	55 x 22 x 16	55 x 22 x 16
Absorbed Current	A	8.11	15.8
Starting Current	A	53	82
PreFuse T	A	15	15
Power Consumption	W	3600	3300
Cabinet Temperature Limits	°F (°C)	77 / 113 (25 / 45)	77 / 113 (25 / 45)
Ambient Temperature Limits	°F (°C)	68 / 131 (20 / 55)	68 / 126 (20 / 52)
Cabinet Protection Degree	IP / Type	- / 12	- / 12
Noise Level	dB(A)	71	71
Weight	lbs (kg)	220 (100)	220 (100)



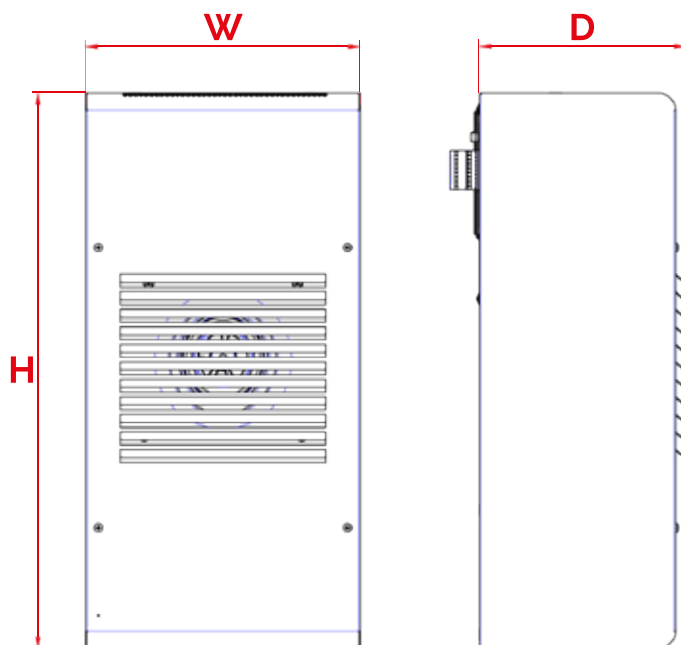
Protherm Outdoor - CVO05



Model	M.U.	CVO05U12038000	CVO05U12208000	CVO05U12128000	CV05U1203800l	CVO05U1220800l	CVO05U1212800l
Cooling Capacity - L35L35-EN14511-2	BTU (W)	1979 (580)	1979 (580)	1706 (500)	1979 (580)	1979 (580)	1706 (500)
Cooling Capacity - L35L50-EN14511-2	BTU (W)	1467 (430)	1467 (430)	1194 (350)	1467 (430)	1467 (430)	1194 (350)
UL		•	•	•	•	•	•
Stainless Steel	304 & 316	N/A	N/A	N/A	•	•	•
Optional Heater	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Power Supply	V-Ph-Hz	115-1-60	230-1-50/60	48VDC	115-1-60	230-1-50/60	48VDC
Height/Width/Depth - (HxWxD)	mm	636 x 314.5 x 233	636 x 314.5 x 233	636 x 314.5 x 233	636 x 314.5 x 233	636 x 314.5 x 233	636 x 314.5 x 233
Height/Width/Depth - (HxWxD)	in	25 x 12 x 9	25 x 12 x 9	25 x 12 x 9	25 x 12 x 9	25 x 12 x 9	25 x 12 x 9
Absorbed Current	A	4.7	2.1	6.1	4.7	2.1	6.1
Starting Current	A	17	7.5	--	17	7.5	--
PreFuse T	A	15	15	15	15	15	15
Power Consumption	W	390	390	300	390	390	300
Cabinet Temperature Limits	°F (°C)	77/113 (25/45)	77/113 (25/45)	77/95 (25/35)	77/113 (25/45)	77/113 (25/45)	77/95 (25/35)
Ambient Temperature Limits	°F (°C)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)
Cabinet Protection Degree	IP / Type	- / 4	- / 4	- / 4	- / 4X	- / 4X	- / 4X
Noise Level	dB(A)	60	60	64	60	60	64
Weight	lbs (kg)	51 (23)	51 (23)	51 (23)	51 (23)	51 (23)	51 (23)



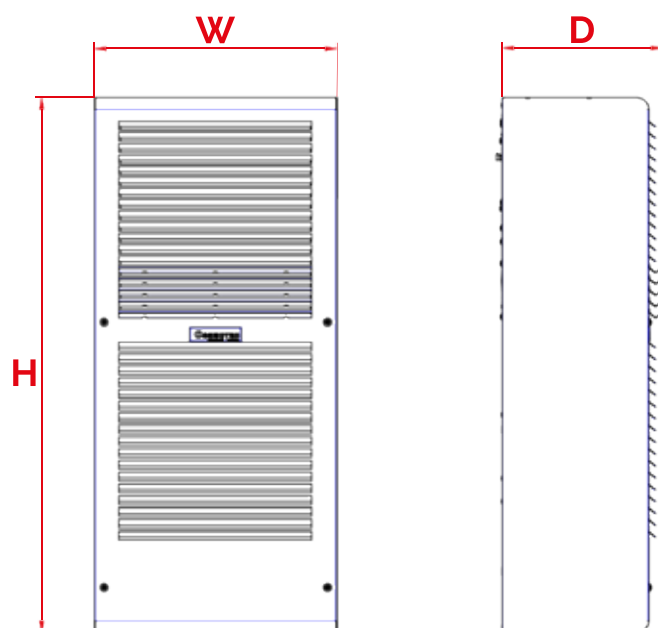
Protherm Outdoor - CVO08



Model	M.U.	CVO08U12038000	CVO08U12208000	CVO08U12038001	CVO08U12208001
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	3070 (900)	3070 (900)	3070 (900)	3070 (900)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	2388 (700)	2388 (700)	2388 (700)	2388 (700)
UL	.	.	.	.	.
Stainless Steel	304 & 316	N/A	N/A	.	.
Optional Heater	N/A	N/A	N/A	N/A	N/A
Power Supply	V-Ph-Hz	115-1-60	230-1-50/60	115-1-60	230-1-50/60
Height/Width/Depth - (HxWxD)	mm	636 x 314.5 x 233	636 x 314.5 x 233	636 x 314.5 x 233	636 x 314.5 x 233
Height/Width/Depth - (HxWxD)	in	25 x 12 x 9	25 x 12 x 9	25 x 12 x 9	25 x 12 x 9
Absorbed Current	A	72	39	72	39
Starting Current	A	28	20	28	20
PreFuse T		15	15	15	15
Power Consumption	W	600	600	600	600
Cabinet Temperature Limits	°F (°C)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)
Ambient Temperature Limits	°F (°C)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)
Cabinet Protection Degree	IP / Type	- / 4	- / 4	- / 4	- / 4
Noise Level	dB(A)	64	64	64	64
Weight	lbs (kg)	60 (27)	60 (27)	60 (27)	60 (27)



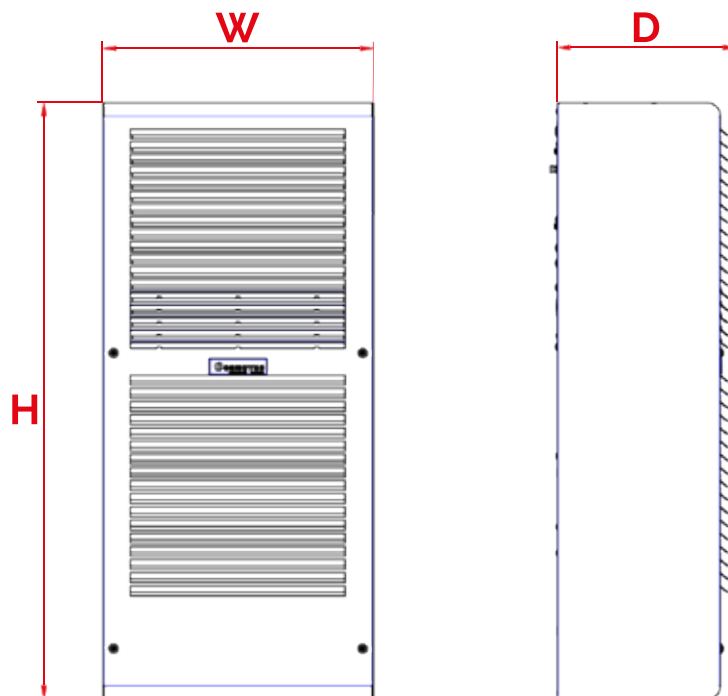
Protherm Outdoor - CVO11



Model	M.U.	CVO11U12038000	CVO11U12208000	CVO11U12038001	CVO11U12208001
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	3923 (1150)	3923 (1150)	3923 (1150)	3923 (1150)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	3036 (890)	3036 (890)	3036 (890)	3036 (890)
UL	.	.	.	.	.
Stainless Steel	304 & 316	N/A	N/A	.	.
Optional Heater	kW	1	1	1	1
Power Supply	V-Ph-Hz	115-1-60	230-1-50/60	115-1-60	230-1-50/60
Height/Width/Depth - (HxWxD)	mm	906 x 412.5 x 271.5	906 x 412.5 x 271.5	906 x 412.5 x 271.5	906 x 412.5 x 271.5
Height/Width/Depth - (HxWxD)	in	36 x 16 x 11	36 x 16 x 11	36 x 16 x 11	36 x 16 x 11
Absorbed Current	A	75	36	75	36
Starting Current	A	34	20	34	20
PreFuse T	A	15	15	15	15
Power Consumption	W	650	650	650	650
Cabinet Temperature Limits	°F (°C)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)
Ambient Temperature Limits	°F (°C)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)
Cabinet Protection Degree	IP / Type	- / 4	- / 4	- / 4X	- / 4X
Noise Level	dB(A)	65	65	65	65
Weight	lbs (kg)	97 (44)	97 (44)	97 (44)	97 (44)



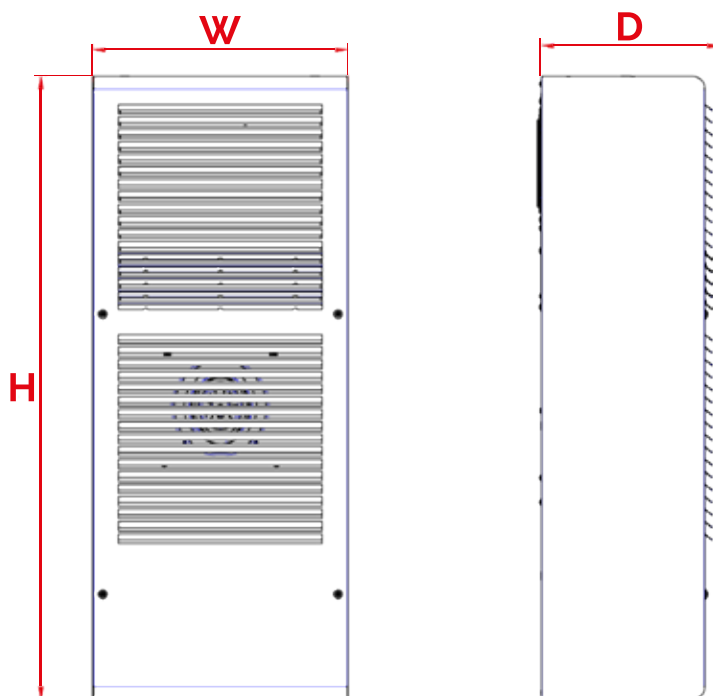
Protherm Outdoor - CVO15



Model	M.U.	CVO15U12038000	CVO15U12208000	CVO15U12628000	CVO15U12038001	CVO15U12208001	CVO15U12628001
Cooling Capacity - L35L35-EN14511-2	BTU (W)	5459 (1600)	5459 (1600)	5118 (1500)	5459 (1600)	5459 (1600)	5118 (1500)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	4367 (1280)	4367 (1280)	4094 (1200)	4367 (1280)	4367 (1280)	4094 (1200)
UL		•	•	•	•	•	•
Stainless Steel	304 & 316	N/A	N/A	N/A	•	•	•
Optional Heater	kW	1	1	N/A	1	1	N/A
Power Supply	V-Ph-Hz	115-1-60	230-1-50/60	400/460-3-50/60	115-1-60	230-1-50/60	400/460-3-50/60
Height/Width/Depth - (HxWxD)	mm	906 x 412.5 x 271.5	906 x 412.5 x 271.5	999 x 412.5 x 286	906 x 412.5 x 271.5	906 x 412.5 x 271.5	999 x 412.5 x 286
Height/Width/Depth - (HxWxD)	in	36 x 16 x 11	36 x 16 x 11	39 x 16 x 11	36 x 16 x 11	36 x 16 x 11	39 x 16 x 11
Absorbed Current	A	9.4	4.5	2.37	9.4	4.5	2.37
Starting Current	A	50	28	20	50	28	20
PreFuse T	A	15	15	15	15	15	15
Power Consumption	W	825	825	890	825	825	890
Cabinet Temperature Limits	°F (°C)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)
Ambient Temperature Limits	°F (°C)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)
Cabinet Protection Degree	IP / Type	- / 4	- / 4	- / 4	- / 4X	- / 4X	- / 4X
Noise Level	dB(A)	65	65	65	65	65	65
Weight	lbs (kg)	101 (46)	101 (46)	106 (48)	101 (46)	101 (46)	106 (48)



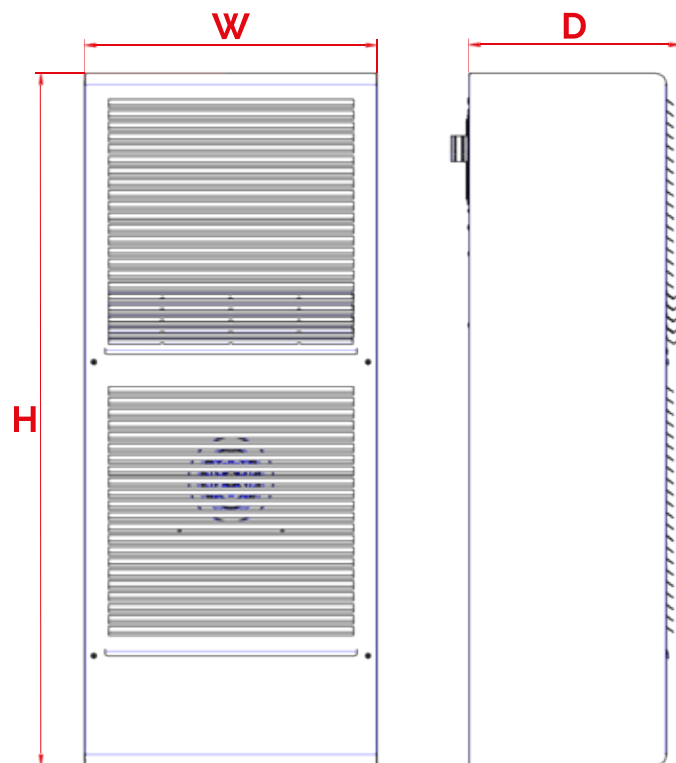
Protherm Outdoor - CVO20



Model	M.U.	CVO20U12038000	CVO20U12208000	CVO20U12628000	CVO20U12038001	CVO20U12208001	CVO20U12628001
Cooling Capacity - L35L35-EN14511-2	BTU (W)	7506 (2200)	7506 (2200)	7165 (2100)	7506 (2200)	7506 (2200)	7165 (2100)
Cooling Capacity - L35L50-EN14511-2	BTU (W)	6312 (1850)	6312 (1850)	6141 (1800)	6312 (1850)	6312 (1850)	6141 (1800)
UL		•	•	•	•	•	•
Stainless Steel	304 & 316	N/A	N/A	N/A	•	•	•
Optional Heater	kW	1	1	N/A	1	1	N/A
Power Supply	V-Ph-Hz	115-1-60	230-1-50/60	400/460-3-50/60	115-1-60	230-1-50/60	400/460-3-50/60
Height/Width/Depth - (HxWxD)	mm	999 x 412.5 x 286	999 x 412.5 x 286	999 x 412.5 x 286	999 x 412.5 x 286	999 x 412.5 x 286	999 x 412.5 x 286
Height/Width/Depth - (HxWxD)	in	39 x 16 x 11	39 x 16 x 11	39 x 16 x 11	39 x 16 x 11	39 x 16 x 11	39 x 16 x 11
Absorbed Current	A	13.64	6.3	3.62	13.64	6.3	3.62
Starting Current	A	60	34	22	60	34	22
PreFuse T	A	25	15	15	25	15	15
Power Consumption	W	1240	1240	1200	1240	1240	1200
Cabinet Temperature Limits	°F (°C)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)
Ambient Temperature Limits	°F (°C)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)
Cabinet Protection Degree	IP / Type	- / 4	- / 4	- / 4	- / 4X	- / 4X	- / 4X
Noise Level	dB(A)	66	66	66	66	66	66
Weight	lbs (kg)	106 (48)	106 (48)	106 (48)	106 (48)	106 (48)	106 (48)



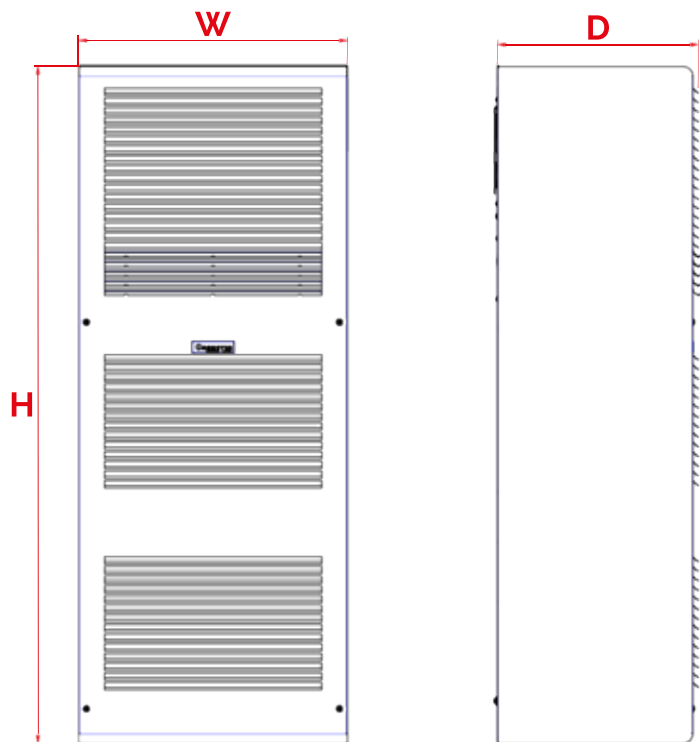
Protherm Outdoor - CVO40



Model	M.U.	CVO40U12208000	CVO40U12628000	CVO40U12208001	CVO40U12628001
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	13989 (4100)	13819 (4050)	13989 (4100)	13819 (4050)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	11260 (3300)	11123 (3260)	11260 (3300)	11123 (3260)
UL		•	•	•	•
Stainless Steel	304 & 316	N/A	N/A	•	•
Optional Heater	kW	1 or 3	N/A	1 or 3	N/A
Power Supply	V-Ph-Hz	230-1-50/60	400/460-3-50/60	230-1-50/60	400/460-3-50/60
Height/Width/Depth - (HxWxD)	mm	1211 x 514 x 370	1211 x 514 x 370	1211 x 514 x 370	1211 x 514 x 370
Height/Width/Depth - (HxWxD)	in	48 x 20 x 15	48 x 20 x 15	48 x 20 x 15	48 x 20 x 15
Absorbed Current	A	8.3	5.96	8.3	5.96
Starting Current	A	35	19	35	19
PreFuse T	A	15	15	15	15
Power Consumption	W	1950	1950	1950	1950
Cabinet Temperature Limits	°F (°C)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)	77/113 (25/45)
Ambient Temperature Limits	°F (°C)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)	-40/131 (-40/55)
Cabinet Protection Degree	IP / Type	- / 4	- / 4	- / 4X	- / 4X
Noise Level	dB(A)	67	67	67	67
Weight	lbs (kg)	176 (80)	187 (85)	176 (80)	187 (85)



Protherm Outdoor - CVO6o



Model	M.U.	CV06oU12628000	CV06oU12628001
Cooling Capacity - L35L35 - EN14511-2	BTU (W)	20300 (5950)	20300 (5950)
Cooling Capacity - L35L50 - EN14511-2	BTU (W)	16550 (4850)	16550 (4850)
UL		•	•
Stainless Steel	304 & 316	N/A	•
Optional Heater	kW	N/A	N/A
Power Supply	V-Ph-Hz	400/460-3-50/60	400/460-3-50/60
Height/Width/Depth - (HxWxD)	mm	1400 x 556 x 428	1400 x 556 x 428
Height/Width/Depth - (HxWxD)	in	55 x 22 x 17	55 x 22 x 17
Absorbed Current	A	8.11	8.11
Starting Current	A	53	53
PreFuse T	A	15	15
Power Consumption	W	3600	3600
Cabinet Temperature Limits	°F (°C)	77/113 (25/45)	77/113 (25/45)
Ambient Temperature Limits	°F (°C)	-40/131 (-40/55)	-40/131 (-40/55)
Cabinet Protection Degree	IP / Type	- / 4	- / 4X
Noise Level	dB(A)	71	71
Weight	lbs (kg)	220 (100)	220 (100)



Slim In - Indoor

Extra Slim A/C

General Features

- High efficiency
- Cooling capacity 1,964 - 7,513 BTU
- XCB electronic board + display
- External, semi-flush or flush mounting
- Quick electrical connections
- Sequencing and Modbus connections
- µchannel condenser
- Condensate evaporator device
- General alarm and remote enable contacts
- Gasket already installed on the air conditioner
- Functioning up to +60°C external temperature



OPTIONAL

CODE	Special Colour	INOX AISI304 Panel	INOX AISI316 Panel	Low Noise Version	Phase Sequence Relay	Condenser coil protective treatment	Remote Probe
CDE05	OCASCCDE	OCAINCDE0405	OCAINCDE1605	OICALNCDE05 ⁽¹⁾	--	OCATCCDE05	OCARESCDE
CDE10	OCASCCDE	OCAINCDE0405	OCAINCDE1605	OICALNCDE10 ⁽¹⁾	--	OCATCCDE05	OCARESCDE
CDE14	OCASCCDE	OCAINCDE0414	OCAINCDE1614	OICALNCDE10 ⁽¹⁾	--	--	OCARESCDE
CDE20	OCASCCDE	OCAINCDE0414	OCAINCDE1614	OICALNCDE20 ⁽¹⁾	OCACFM ⁽²⁾	--	OCARESCDE
CDE30	OCASCCDE	OCAINCDE0430	OCAINCDE1630	OICALNCDE20 ¹	OCACFM ⁽²⁾	--	OCARESCDE
CDE40	OCASCCDE	OCAINCDE0440	OCAINCDE1640	OICALNCDE20	OCACFM	--	OCARESCDE

ACCESSORIES

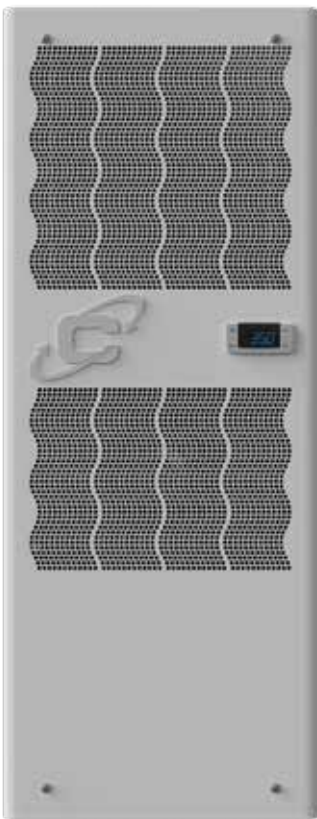
CODE	Semi-Flush Mounting Frame	External Mounting Frame	Air filter	Sequencing cable
CDE05	ACASFRCDDE05	ACAFRCDE05	ACAFLTCDE05	ACASEQ
CDE10	ACASFRCDDE05	ACAFRCDE05	ACAFLTCDE05	ACASEQ
CDE14	ACASFRCDDE14	ACAFRCDE14	ACAFLTCDE14	ACASEQ
CDE20	ACASFRCDDE14	ACAFRCDE14	ACAFLTCDE14	ACASEQ
CDE30	ACASFRCDDE30	ACAFRCDE30	ACAFLTCDE30	ACASEQ
CDE40	ACASFRCDDE30	ACAFRCDE30	ACAFLTCDE30	ACASEQ

OPTION FOR ACCESSORIES

CODE	Special Colour	Stainless Steel AISI 304	Stainless Steel AISI 316
ACASFRCDDE05	OCASCSFRCDDE	OCASFRCDE05	OCASFRCDE05
ACAFRCDE05	OCASCSFRCDDE	OCAFRCDE05	OCAFRCDE14
ACASFRCDDE14	OCASCSFRCDDE	OCASFRCDE14	OCASFRCDE14
ACAFRCDE14	OCASCSFRCDDE	OCAFRCDE14	OCAFRCDE14
ACASFRCDDE30	OCASCSFRCDDE	OCASFRCDE30	OCASFRCDE30
ACAFRCDE30	OCASCSFRCDDE	OCAFRCDE30	OCAFRCDE30
ACAFLTCDE05	OCASCSFLTCDE	--	--
ACAFLTCDE14	OCASCSFLTCDE	--	--
ACAFLTCDE30	OCASCSFLTCDE	--	--



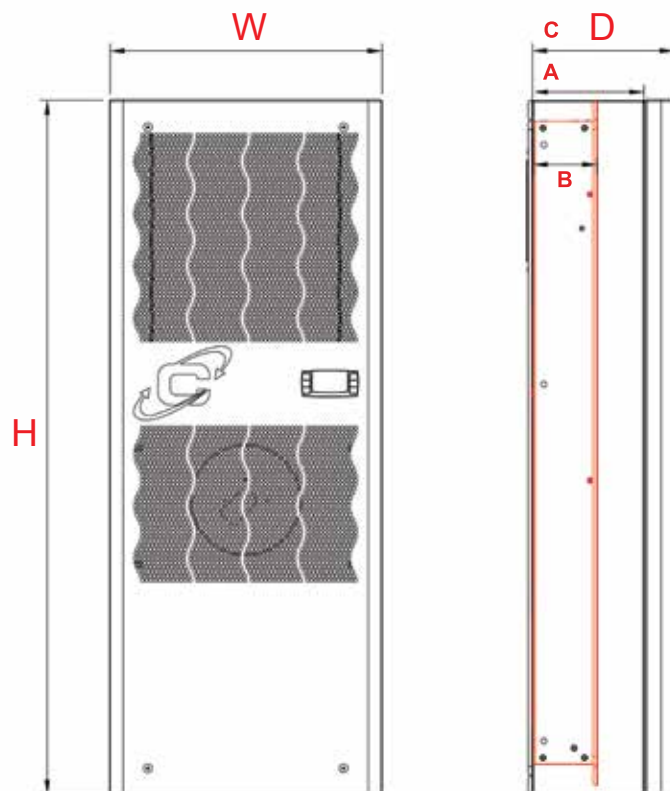
Slim In - CDE05



A = Flush Mounting

B = Semi- Flush Mounting

C = External Mounting



Model	M.U.	CDE05U320380000	CDE05A322080000		CDE05U322080000	
Cooling Capacity - L95L95 (L35L35)	BTU (W)	1964 (575)	2049 (600)	2288 (670)	---	2288 (670)
Cooling Capacity - L95L122 (L35L50)	BTU (W)	1451 (425)	1742 (510)	1844 (540)	---	1844 (540)
UL		.	---			.
Power Supply	V-Ph-Hz	115-1-60	230-1-50	230-1-60	230-1-50	230-1-60
Height/Width/Depth - (HxWxD)	mm	956 x 375 x 196	956 x 375 x 196		956 x 375 x 196	
Height/Width/Depth - (HxWxD)	in	38 x 15 x 8	38 x 15 x 8		38 x 15 x 8	
Max Power Consumption	W	350	---	---	---	387
Max Current Consumption	A	4	2.3 (2.4 60°C)	2.4	1.96 (2.4 60°C)	1.98
Start-up Current - CE	A	---	7.5		7.5	
Power Consumption	W (BTU)	350 (1195)	380 (1298)	425 (1451)	---	425 (1451)
Internal Operating Temperature	min/max °F (°C)	77 / 113 (25 / 45)	77 / 113 (25 / 45)		77 / 113 (25 / 45)	
External Operating Temperature	min/max °F (°C)	68 / 131 (20 / 55)	68 / 131 (20 / 55) 60.50Hz		68 / 131 (20 / 55) 60.50Hz	
External Sound Pressure	dB(A)	54	54		54	
Weight	lbs (kg)	66 (30)	66 (30)		66 (30)	



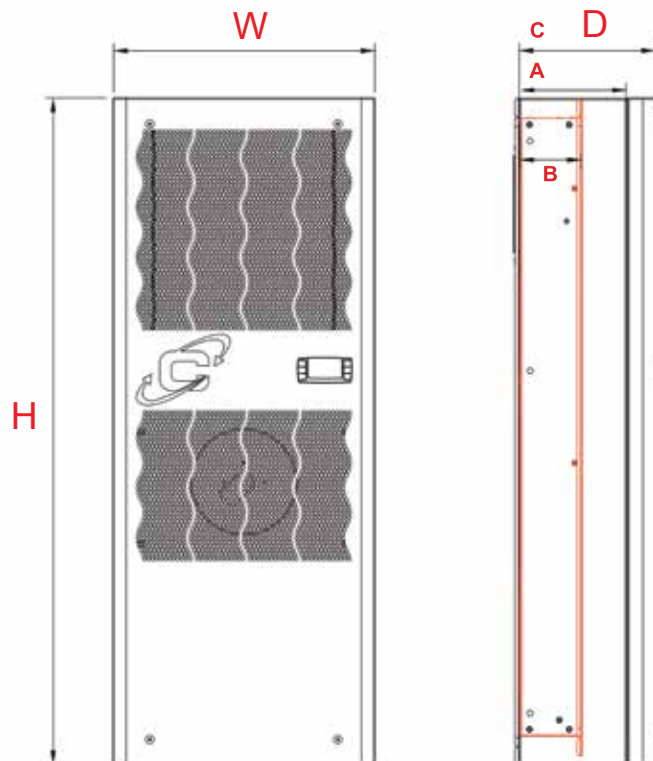
Slim In - CDE10



A = Flush Mounting

B = Semi- Flush Mounting

C = External Mounting



Model	M.U.	CDE10U320380000	CDE10A322080000		CDE10U322080000	
Cooling Capacity - L95L95 (L35L35)	BTU (W)	3327 (975)	3412 (1000)	3583 (1050)	---	3583 (1050)
Cooling Capacity - L95L122 (L35L50)	BTU (W)	2388 (700)	2457 (720)	2730 (800)	---	2730 (800)
UL		.	---		.	
Power Supply	V-Ph-Hz	115-1-60	230-1-50	230-1-60	230-1-50	230-1-60
Height/Width/Depth - (HxWxD)	mm	956 x 375 x 196	956 x 375 x 196		956 x 375 x 196	
Height/Width/Depth - (HxWxD)	in	38 x 15 x 8	38 x 15 x 8		38 x 15 x 8	
Max Power Consumption	W	551	---	---	---	730
Max Current Consumption	A	5.45	3.5 (3.6 60°C)	4	3.5 (3.6 60°C)	4
Start-up Current - CE	A	---	20		20	
Power Consumption	W (BTU)	580	595	710	---	730
Internal Operating Temperature	min / max °F (°C)	77 / 95 (25 / 35)	77 / 113 (25 / 45)		77 / 113 (25 / 45)	
External Operating Temperature	min / max °F (°C)	68 / 122 (20 / 50)	68 / 131 (20 / 55) 60.50Hz		68 / 131 (20 / 55) 60.50Hz	
External Sound Pressure	dB(A)	56	56		56	
Weight	lbs (kg)	79 (36)	79 (36)		79 (36)	



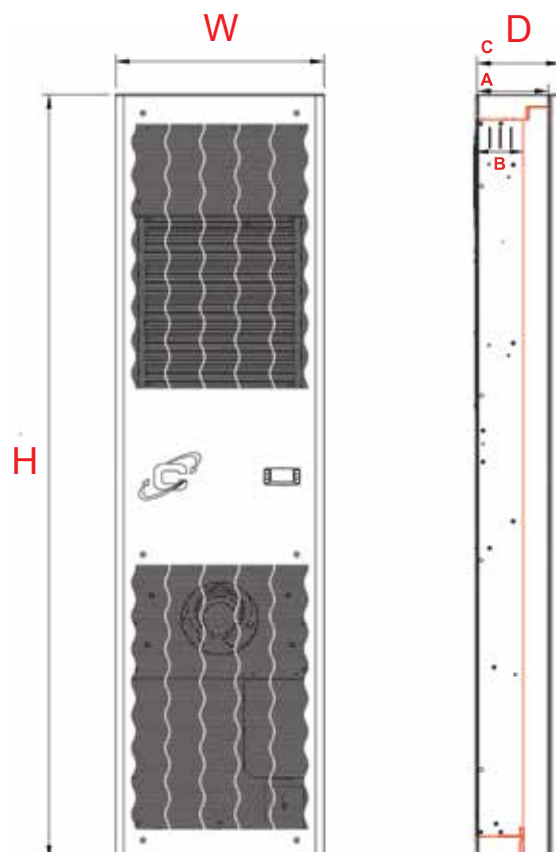
Slim In - CDE14



A = Flush Mounting

B = Semi- Flush Mounting

C = External Mounting



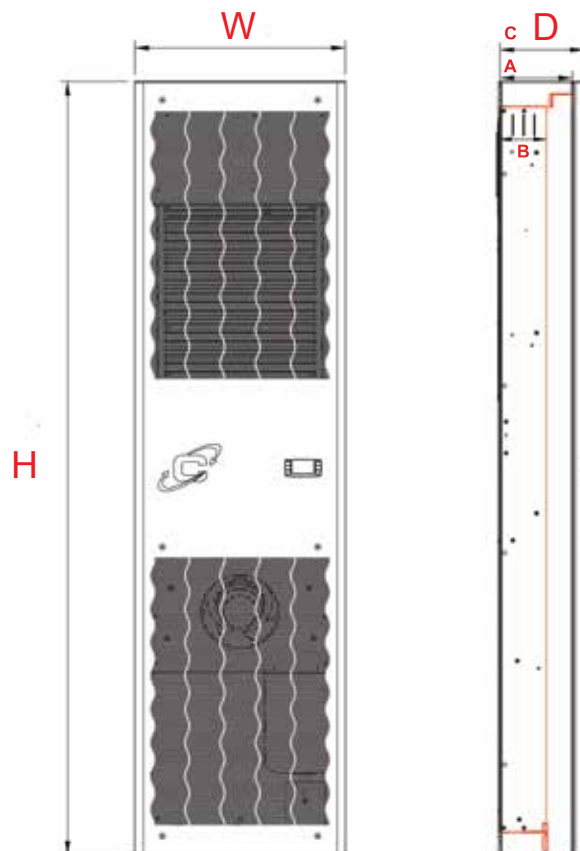
Model	M.U.	CDE14U320380000	CDE14A322080000		CDE14U322080000		CDE14A322880000	
Cooling Capacity - L95L95 (L35L35)	BTU (W)	4781 (1400)	4781 (1400)	5123 (1500)	---	5123 (1500)	4781 (1400)	5123 (1500)
Cooling Capacity - L95L122 (L35L50)	BTU (W)	3927 (1150)	3927 (1150)	4269 (1250)	---	4269 (1250)	3927 (1150)	4269 (1250)
UL		.	---		.		---	
Power Supply	V-Ph-Hz	115-1-60	230-1-50	230-1-60	230-1-50	230-1-60	400-2-50	460-2-60
Height/Width/Depth - (HxWxD)	mm	1666 x 454 x 181	1666 x 454 x 181		1666 x 454 x 181		1666 x 454 x 181	
Height/Width/Depth - (HxWxD)	in	66 x 18 x 7	66 x 18 x 7		66 x 18 x 7		66 x 18 x 7	
Max Power Consumption	W	930	---	---	---	820	---	---
Max Current Consumption	A	9.2	4.1	4.7	3.9 (4.1 60°C)	4.23	2.7	2.4
Start-up Current - CE	A	---	28		28		43	
Power Consumption	W (BTU)	855	730	820	---	820	730	820
Internal Operating Temperature	min / max F (°C)	77 / 113 (25 / 45)	77 / 113 (25 / 45)		77 / 113 (25 / 45)		77 / 113 (25 / 45)	
External Operating Temperature	min / max F (°C)	68 / 131 (20 / 55)	68 / 140 (20 / 60)		68 / 131 (20 / 55) 60.50Hz		68 / 140 (20 / 60)	
External Sound Pressure	dB(A)	60	60		60		60	
Weight	lbs (kg)	110 (50)	110 (50)		110 (50)		110 (50)	



Slim In - CDE20



A = Flush Mounting
B = Semi- Flush Mounting
C = External Mounting



Model	M.U.	CDE20U320380000	CDE20A322080000		CDE20U322080000		CDE20A236180000		CDE20U326280000	
Cooling Capacity - L95L95 (L35L35)	BTU (W)	7172 (2100)	7172 (2100)	7513 (2200)	---	7513 (2200)	7172 (2100)	7513 (2200)	---	7513 (2200)
Cooling Capacity - L95L122 (L35L50)	BTU (W)	5806 (1700)	5720 (1675)	5806 (1700)	---	5806 (1700)	5720 (1675)	5806 (1700)	---	5806 (1700)
UL		.	---		.		---		.	
Power Supply	V-Ph-Hz	115-1-60	230-1-50	230-1-60	230-1-50	230-1-60	400-3-50	460-3-60	400-3-50	460-3-60
Height/Width/Depth - (HxWxD)	mm	1666 x 454 x 181	1666 x 454 x 181		1666 x 454 x 181		1666 x 454 x 181		1666 x 454 x 181	
Height/Width/Depth - (HxWxD)	in	66 x 18 x 7	66 x 18 x 7		66 x 18 x 7		66 x 18 x 7			
Max Power Consumption	W	1372	---	---	---	1430	---	---	---	1420
Max Current Consumption	A	13.48	6.5	7.7	6.3 (6.5 60°C)	7.2	2.2 (2.2 60°C)	2.3	2.2 (2.2 60°C)	2.36
Start-up Current - CE	A	---	34		34		40		40	
Power Consumption	W (BTU)	1220 (4167)	1200 (4098)	1430 (4884)	---	1430 (4884)	1020 (3483)	1240 (4235)	---	1240 (4235)
Internal Operating Temperature	min / max °F (°C)	77 / 113 (25 / 45)	77 / 113 (25 / 45)		77 / 113 (25 / 45)		77 / 113 (25 / 45)		77 / 113 (25 / 45)	
External Operating Temperature	min / max °F (°C)	68 / 131 (20 / 55)	68 / 140 (20 / 60)		68 / 131 (20 / 55) 60.50Hz		68 / 131 (20 / 55) 60.50Hz		68 / 131 (20 / 55) 60.50Hz	
External Sound Pressure	dB(A)	68	68		68		68		68	
Weight	lbs (kg)	115 (52)	115 (52)		115 (52)		115 (52)		115 (52)	



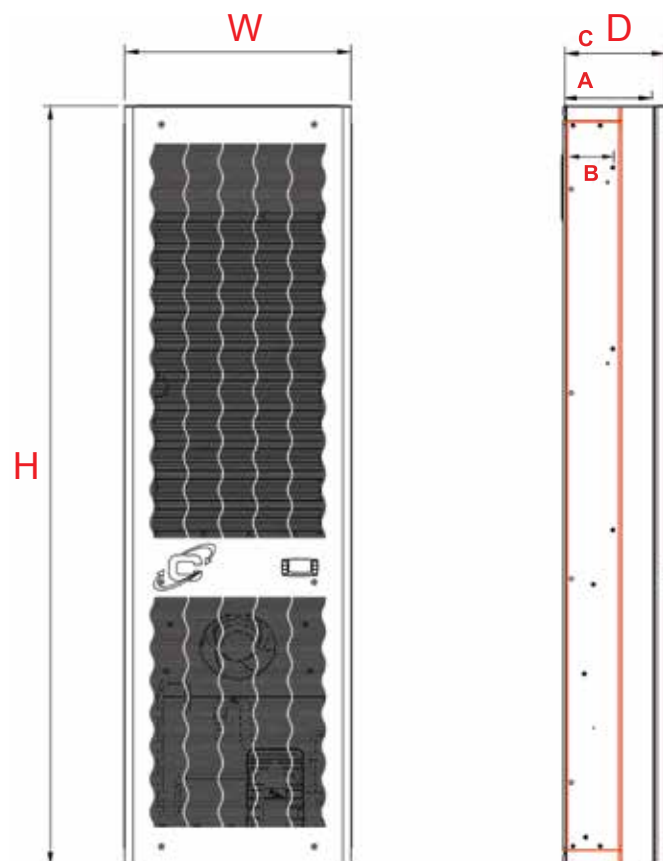
Slim In - CDE30



A = Flush Mounting

B = Semi- Flush Mounting

C = External Mounting



Model	M.U.	CDE30A322080000		CDE30U322080000		CDE30A326180000		CDE30U326280000	
Cooling Capacity - L95L95 (L35L35)	BTU (W)	4423 (1295)	5464 (1600)	---	5464 (1600)	4440 (1300)	5362 (1570)	---	5362 (1570)
Cooling Capacity - L95L122 (L35L50)	BTU (W)	---	---	---	5464 (1600)	---	---	---	5635 (1650)
UL		---		.		---		.	
Power Supply	V-Ph-Hz	230-1-50	230-1-60	230-1-50	230-1-60	400-3-50	460-3-60	400-3-50	460-3-60
Height/Width/Depth - (HxWxD)	mm	1666 x 496 x 221		1666 x 454 x 181		1666 x 454 x 181		1666 x 454 x 181	
Height/Width/Depth - (HxWxD)	in	66 x 20 x 9		66 x 20 x 9		66 x 20 x 9		66 x 20 x 9	
Max Power Consumption	W	---	---	---	1600	---	---	---	1650
Max Current Consumption	A	6.6	8	6.3 (6.6 60°C)	7.6	3.1	3.2	3 (3.1 60°C)	2.9
Start-up Current - CE	A	36		36		62		62	
Power Consumption	W (BTU)	1200 (4098)	1430 (4884)	---	1430 (4884)	1020 (3483)	1240 (4235)	---	1240 (4235)
Internal Operating Temperature	min / max °F (°C)	77 / 113 (25 / 45)		77 / 113 (25 / 45)		77 / 113 (25 / 45)		77 / 113 (25 / 45)	
External Operating Temperature	min / max °F (°C)	68 / 140 (20 / 60)		68 / 131 (20 / 55) 60.50Hz		68 / 140 (20 / 60)		68 / 131 (20 / 55) 60.50Hz	
External Sound Pressure	dB(A)	69		69		69		69	
Weight	lbs (kg)	123 (56)		123 (56)		123 (56)		123 (56)	



XVA - Indoor

Air/Air Heat Exchangers

Common Features

- Indoor installation
- Large Capacity Range
- Patented Compact, Counterflow Aluminum Core
- High Efficiency, Low Pressure Drop Design
- Internal / External Mounting Capabilities
- Filterless Design
- Rugged Mild-Steel Construction for Industrial Applications
- UL Listed Units for Design Simplicity
- Threaded Inserts for Lifting Eyes on all Models
- Mounting Hardware, Gasketing and User Manuals Provided
- Full-Size Mounting Template Provided
- Patented heat exchange core made of aluminium, to ensure high efficiency with compact dimensions
- Specific Heat Transmission 16-80 W/K



Certifications

- UL Listed
- Indoor: Nema 12

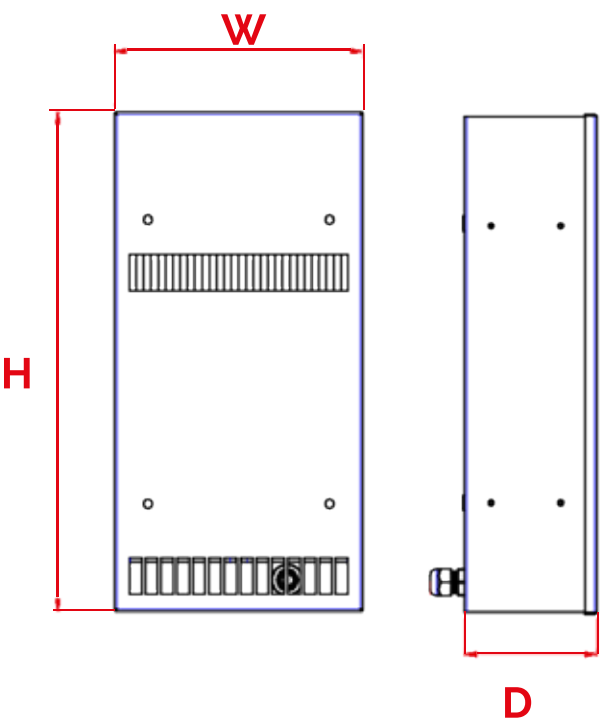


OPTIONAL

Model	Special Color	Housing
XVA16	OCAXNS06	OCAXI01
XVA35	OCAXNS03	OCAXI02
XVA50	OCAXNS03	OCAXI02
XVA80	OCAXNS01	OCAXI03
XVA90	OCAXNS01	OCAXI03



XVA16

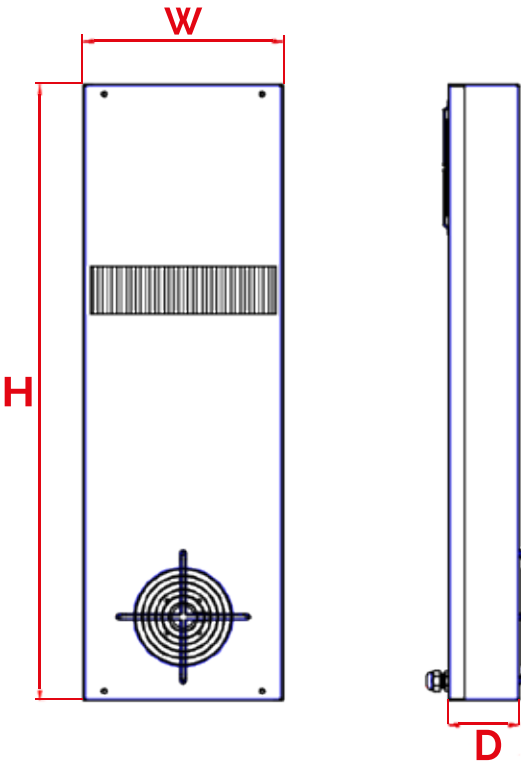
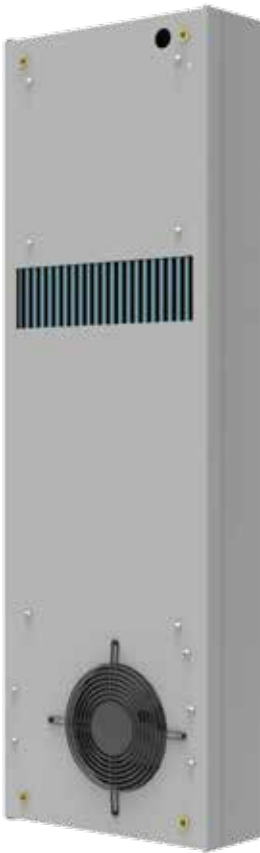


Model	M.U.	XVA16U1303
Specific Heat Transmission	W (°C)	16
Specific Heat Transmission	W (°F)	9
UL		•
Power Supply	V-ph-Hz	115-1-60
Height / Width / Depth (HxWxD)	mm	410 x 204 x 109
Height / Width / Depth (HxWxD)	in	16 x 8 x 4
Absorbed Current	A	0.6
Pre-Fuse T	A	2
Power Consumption	W	40
Internal Temperature limits	°F (°C)	23 / 131 (-5 / 55)
Side Ambient Temperature limits	°F (°C)	23 / 131 (-5 / 55)
Side Cabinet Protection Degree	IP / Type	- / 12
Noise Level	dB(A)	58
Weight	kg	4.6
Installation		Internal / External
Mechanical Thermostat		No

Optional
HEx Stainless Steel Sizes (OCAXI01, OCAXI02, OCAXI03)
HEx Special Color Sizes (OCAXNS01, OCAXNS03, OCAXNS06)



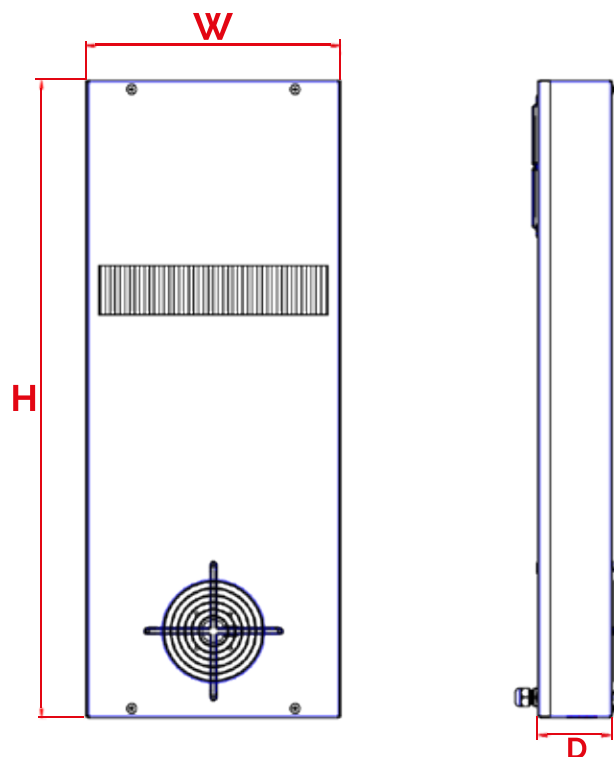
XVA35



Model	M.U.	XVA35U1303	XVA35U1320
Specific Heat Transmission	W (°C)	35	35
Specific Heat Transmission	W (°F)	20	20
UL		.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60
Height / Width / Depth (HxWxD)	mm	780 X 254 X 90	780 X 254 X 90
Height / Width / Depth (HxWxD)	in	31 x 10 x 3.5	31 x 10 x 3.5
Absorbed Current	A	11	0.8
Pre-Fuse T	A	4	2
Power Consumption	W	180	150
Internal Temperature limits	°F (°C)	23 / 131 (-5 / +55)	23 / 131 (-5 / +55)
Side Ambient Temperature limits	°F (°C)	23 / 131 (-5 / +55)	23 / 131 (-5 / +55)
Side Cabinet Protection Degree	IP / Type	- / 12	- / 12
Noise Level	dB(A)	76	76
Weight	kg	7.5	7.5
Installation		Internal / External	Internal / External
Mechanical Thermostat		No	No

Optional
HEX Stainless Steel Sizes (OCAXI01, OCAXI02, OCAXI03)
HEX Special Color Sizes (OCAXNS01, OCAXNS03, OCAXNS06)

XVA50



Model	M.U.	XVA50U1303	XVA50U1320
Specific Heat Transmission	W (°C)	50	50
Specific Heat Transmission	W (°F)	28	28
UL		.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60
Height / Width / Depth (HxWxD)	mm	780 X 312 X 90	780 X 312 X 90
Height / Width / Depth (HxWxD)	in	31 x 12 x 3.5	31 x 12 x 3.5
Absorbed Current	A	14	0.8
Pre-Fuse T	A	4	2
Power Consumption	W	180	150
Internal Temperature limits	°F (°C)	23 / 131 (-5 / +55)	23 / 131 (-5 / +55)
Side Ambient Temperature limits	°F (°C)	23 / 131 (-5 / +55)	23 / 131 (-5 / +55)
Side Cabinet Protection Degree	IP / Type	- / 12	- / 12
Noise Level	dB(A)	76	76
Weight	kg	9.5	9.5
Installation		Internal / External	Internal / External
Mechanical Thermostat		No	No

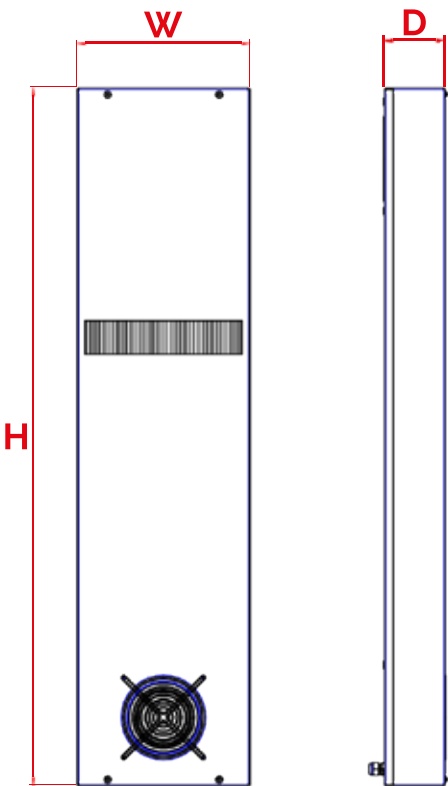
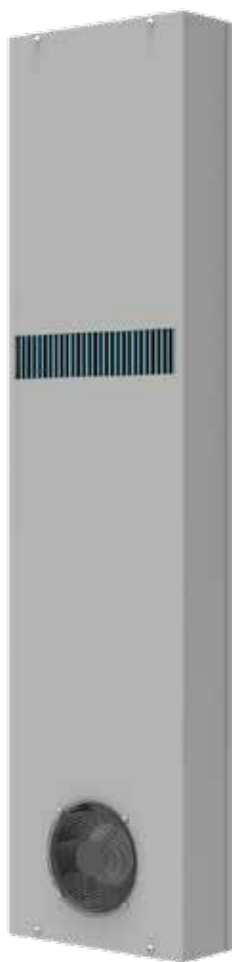
Optional

HEX Stainless Steel Sizes (OCAXI01, OCAXI02, OCAXI03)

HEX Special Color Sizes (OCAXNS01, OCAXNS03, OCAXNS06)



XVA80



Model	M.U.	XVA80U1303	XVA80U1320
Specific Heat Transmission	W (°C)	80	80
Specific Heat Transmission	W (°F)	45	45
UL		.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60
Height / Width / Depth (HxWxD)	mm	1250 X 311 X 108	1250 X 311 X 108
Height / Width / Depth (HxWxD)	in	49 x 12 x 4	49 x 12 x 4
Absorbed Current	A	23	13
Pre-Fuse T	A	4	4
Power Consumption	W	230	180
Internal Temperature limits	°F (°C)	23 / 131 (-5 / +55)	23 / 131 (-5 / +55)
Side Ambient Temperature limits	°F (°C)	23 / 131 (-5 / +55)	23 / 131 (-5 / +55)
Side Cabinet Protection Degree	IP / Type	- / 12	- / 12
Noise Level	dB(A)	76	76
Weight	kg	20	20
Installation		Internal / External	Internal / External
Mechanical Thermostat		No	No

Optional
HEx Stainless Steel Sizes (OCAXI01, OCAXI02, OCAXI03)
HEx Special Color Sizes (OCAXNS01, OCAXNS03, OCAXNS06)



EXW - Indoor

Air/Water Heat Exchangers

Design Features

- Cooling capacity 2,968 - 42,690
- Wall or top mounting (EXW15H or EXW50H)
- Patented Construction / Air Flow Feature to Prevent Water Penetration
- Filterless Design Promotes Ease of Maintenance
- Blower Design Promotes Efficient Air Movement Over Coils
- Mounts Externally to Enclosure
- Mounting Hardware, Gasketing and User Manuals Provided
- Full-Size Mounting Template Provided

Heat Exchanger Core

- Copper Tube / Aluminum Fin Design
- Design Promotes Optimal Performance in Heat Transfer

Temperature Control

- Mechanical Thermostat / Water Valve Designed System
- Thermostat uses Water Valve to Optimize Temperature Range
- Water Valve Increases Efficiency in Performance of the Water Pump



Certifications

- CE
- UL Listed (Code = EXW--U-----)

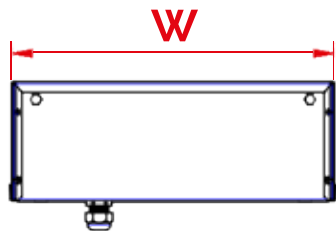
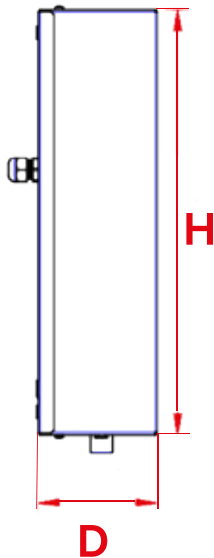


OPTIONAL

CODE	Special Color	Thermostat	Housing
EXW06	OCAXNS06	OCAEVT1	OCAXI04
EXW15	OCAXNS08	OCAEVT2	OCAXI05
EXW15H	OCAXNS08	STD	OCAXI05
EXW25	OCAXNS08	OCAEVT2	OCAXI05
EXW50	OCAXNS10	OCAEVT2	OCAXI06
EXW50H	OCAXNS10	STD	OCAXI06
EXWA0	OCAXNS10	OCAEVT4	OCAXI07
EXWA5	OCAXNS11	OCAEVT4	OCAXI07
EXWB0	OCAXNS11	STD	OCAXI07



EXWo6



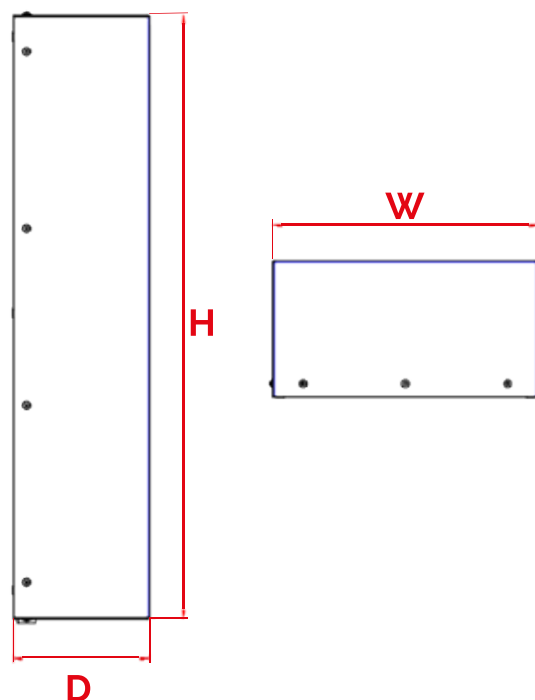
Model	M.U.	EXWo6U1222	EXWo6U1220
Cooling Capacity - $\Delta T=25^{\circ}\text{C}$	BTU (W)	2968 (870)	2968 (870)
UL		.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60
Height / Width / Depth (HxWxD)	mm	403 x 306 x 113	403 x 306 x 113
Height / Width / Depth (HxWxD)	in	16 x 12 x 4	16 x 12 x 4
Cabinet Fan Flow	A	330	330
Absorbed Current	A	0.5	0.5
T PreFuse	A	2	2
Absorbed Fan Power	W	24	25
Water Flow	L/h	150	150
Max Water Pressure	kPa	500	500
Water Pressure Drop	kPa	2	2
Side Cabinet Temperature Limits	$^{\circ}\text{F}$ ($^{\circ}\text{C}$)	50 / 131 (10 / 55)	50 / 131 (10 / 55)
Water Connection Diameter	in	3 / 8 NPT	3 / 8 NPT
Cabinet Protection Degree	IP/Type	- / 12	- / 12
Noise Level	dB(A)	58	58
Weight	lbs (kg)	15.4 (7)	15.4 (7)

Optional

- HEx Special Color Sizes (OCAXNS01, OCAXNS03, OCAXNS06)
- HEx A2W Stainless Steel Sizes (OCAXIo4, OCAXIo5, OCAXIo6, OCAXIo7)



EXW15



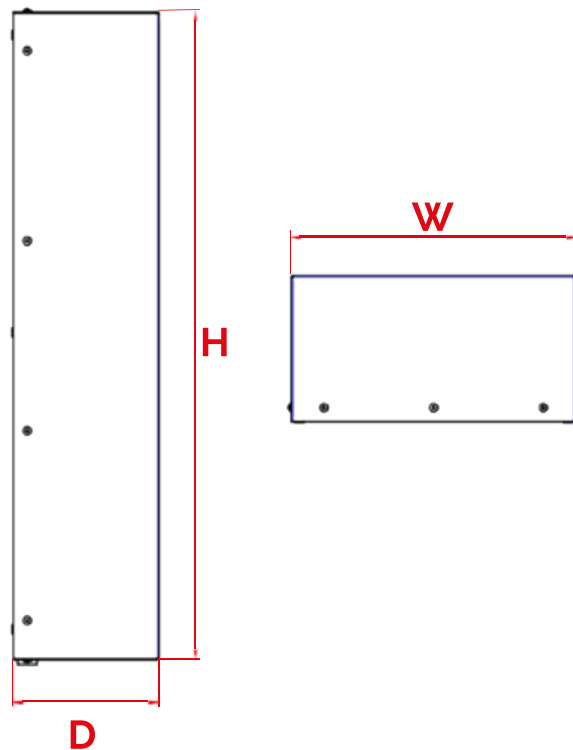
Model	M.U.	EXW15U1222	EXW15U1220
Cooling Capacity - $\Delta T=25^{\circ}\text{C}$	BTU (W)	7507 (2200)	7507 (2200)
UL		.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60
Height / Width / Depth (HxWxD)	mm	916 x 402 x 206	916 x 402 x 206
Height / Width / Depth (HxWxD)	in	36 x 16 x 8	36 x 16 x 8
Cabinet Fan Flow	A	575	575
Absorbed Current	A	0.8	0.8
T PreFuse	A	2	2
Absorbed Fan Power	W	90	75
Water Flow	L/h	150	150
Max Water Pressure	kPa	1000	1000
Water Pressure Drop	kPa	30	30
Side Cabinet Temperature Limits	$^{\circ}\text{F}$ ($^{\circ}\text{C}$)	50 / 131 (10 / 55)	50 / 131 (10 / 55)
Water Connection Diameter	in	1 / 2 NPT	1 / 2 NPT
Cabinet Protection Degree	IP/Type	- / 12	- / 12
Noise Level	dB(A)	58	58
Weight	lbs (kg)	46.3 (21)	46.3 (21)

Optional

- HEx Special Color Sizes (OCAXNS01, OCAXNS03, OCAXNS06)
- HEx A2W Stainless Steel Sizes (OCAXI04, OCAXI05, OCAXI06, OCAXI07)



EXW25



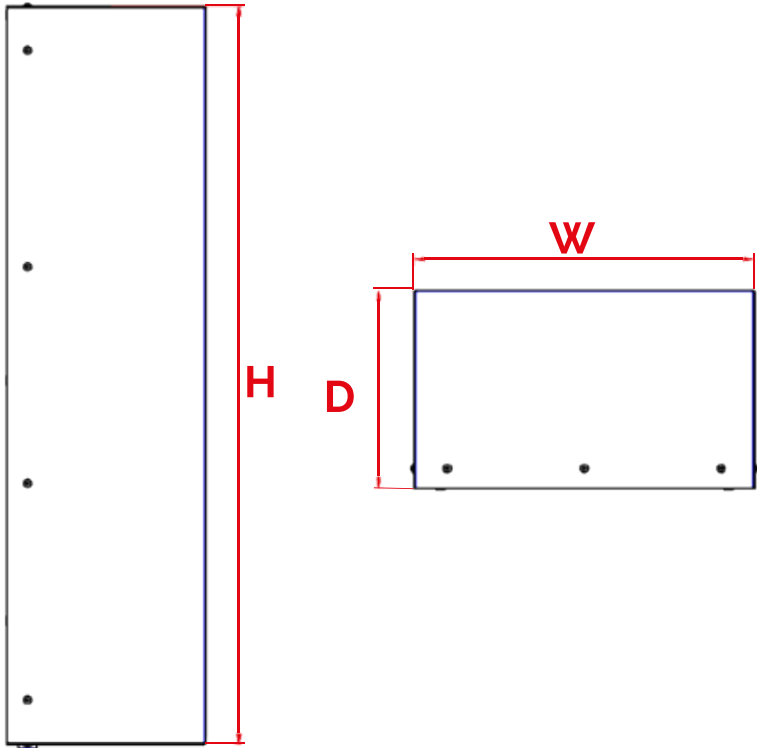
Model	M.U.	EXW25U1222	EXW25U1220
Cooling Capacity - $\Delta T=25^{\circ}\text{C}$	BTU (W)	10578 (3100)	10578 (3100)
UL		.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60
Height / Width / Depth (HxWxD)	mm	916 x 402 x 206	916 x 402 x 206
Height / Width / Depth (HxWxD)	in	36 x 16 x 8	36 x 16 x 8
Cabinet Fan Flow	A	860	860
Absorbed Current	A	1	1
T PreFuse	A	4	4
Absorbed Fan Power	W	115	90
Water Flow	L/h	500	500
Max Water Pressure	kPa	1000	1000
Water Pressure Drop	kPa	63	63
Side Cabinet Temperature Limits	$^{\circ}\text{F}$ ($^{\circ}\text{C}$)	50 / 131 (10 / 55)	50 / 131 (10 / 55)
Water Connection Diameter	in	1 / 2 NPT	1 / 2 NPT
Cabinet Protection Degree	IP/Type	- / 12	- / 12
Noise Level	dB(A)	58	58
Weight	lbs (kg)	48.5 (22)	48.5 (22)

Optional

- HEx Special Color Sizes (OCAXNS01, OCAXNS03, OCAXNS06)
- HEx A2W Stainless Steel Sizes (OCAXI04, OCAXI05, OCAXI06, OCAXI07)



EXW50

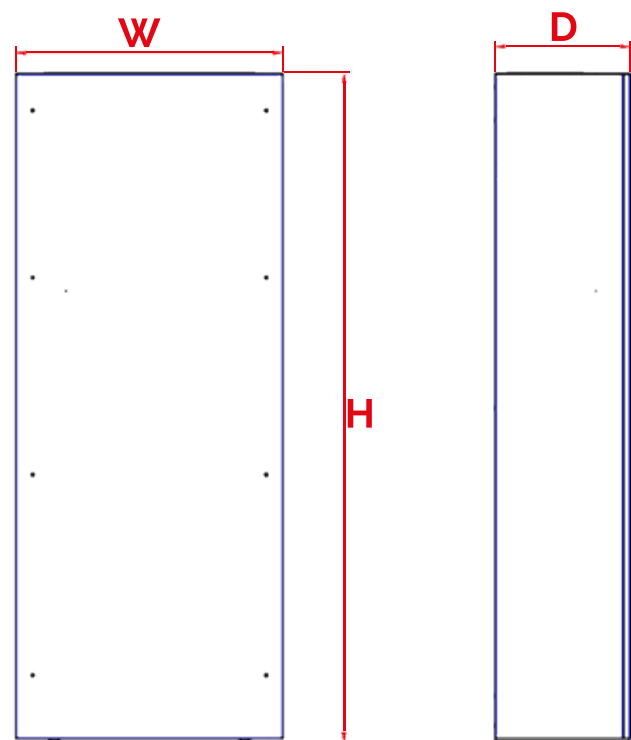
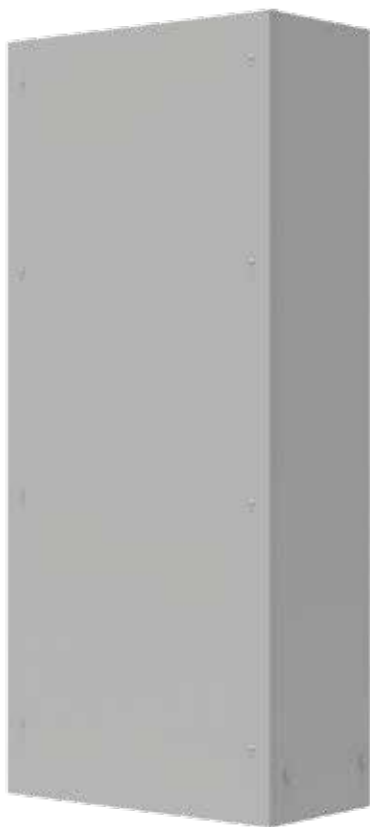


Model	M.U.	EXW50U1222	EXW50U1220
Cooling Capacity - $\Delta T=25^{\circ}\text{C}$	BTU (W)	22882 (6700)	22882 (6700)
UL		.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60
Height / Width / Depth (HxWxD)	mm	1091 x 503 x 293	1091 x 503 x 293
Height / Width / Depth (HxWxD)	in	43 x 20 x 11.5	43 x 20 x 11.5
Cabinet Fan Flow	A	1450	1450
Absorbed Current	A	2	1.3
T PreFuse	A	4	4
Absorbed Fan Power	W	155	285
Water Flow	l/h	860	860
Max Water Pressure	kPa	1000	1000
Water Pressure Drop	kPa	40	40
Side Cabinet Temperature Limits	$^{\circ}\text{F}$ ($^{\circ}\text{C}$)	50 / 131 (10 / 55)	50 / 131 (10 / 55)
Water Connection Diameter	in	1 / 2 NPT	1 / 2 NPT
Cabinet Protection Degree	IP/Type	- / 12	- / 12
Noise Level	dB(A)	58	58
Weight	lbs (kg)	39	39

- Optional
- HEx Special Color Sizes (OCAXNS01, OCAXNS03, OCAXNS06)
 - HEx A2W Stainless Steel Sizes (OCAXI04, OCAXI05, OCAXI06, OCAXI07)



EXWAo



Model	M.U.	EXWAoU1222	EXWAoU1220
Cooling Capacity - $\Delta T=25^{\circ}\text{C}$	BTU (W)	42690 (12500)	42690 (12500)
UL		.	.
Power Supply	V-ph-Hz	115-1-60	230-1-50/60
Height / Width / Depth (HxWxD)	mm	2000 x 800 x 400	2000 x 800 x 400
Height / Width / Depth (HxWxD)	in	79 x 31.5 x 16	79 x 31.5 x 16
Cabinet Fan Flow	A	2900	2900
Absorbed Current	A	5.5	3
T PreFuse	A	15	15
Absorbed Fan Power	W	390	570
Water Flow	L/h	1440	1440
Max Water Pressure	kPa	1000	1000
Water Pressure Drop	kPa	90	90
Side Cabinet Temperature Limits	$^{\circ}\text{F}$ ($^{\circ}\text{C}$)	50 / 131 (10 / 55)	50 / 131 (10 / 55)
Water Connection Diameter	in	3 / 4 NPT	3 / 4 NPT
Cabinet Protection Degree	IP/Type	- / 12	- / 12
Noise Level	dB(A)	60	60
Weight	lbs (kg)	90	90

Optional

- HEX Special Color Sizes (OCAXNS01, OCAXNS03, OCAXNS06)
- HEX A2W Stainless Steel Sizes (OCAXI04, OCAXI05, OCAXI06, OCAXI07)



KRYOS³

Filter Fans

Common Features

- Wide range of sizes
- Wide range of voltage options
- Easy maintenance and filter substitution
- Snap in mounting that does not require hardware
- Retention clips designed to accept wide range of enclosures
- Designed in ABS BLEND (RAL7035)
- Air Flow 20.6 - 500.3 ft³/min
- Reversible air flow, push /pull
- IP54/NEMA3R with Rain Hood
- MTBF: 40000 hours



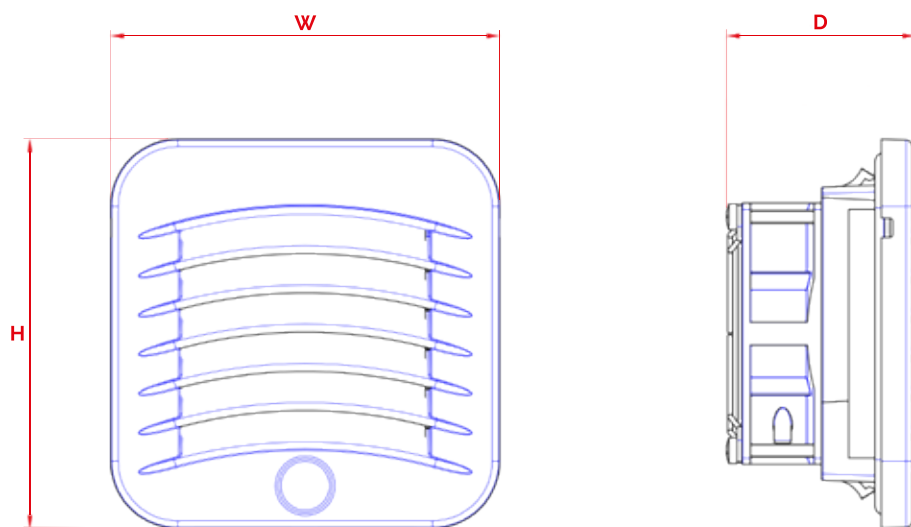
Certifications

- CE
- UL Recognized
- FTTA / FTTA7





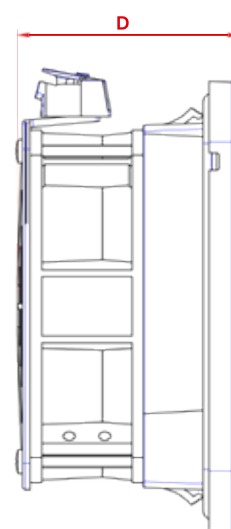
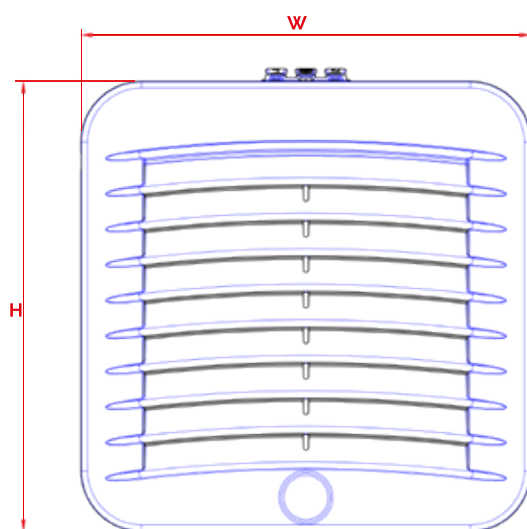
KRYOS³ - GSV10



Model	M.U.	GSV1000203	GSV1000220	GSV1000210	GSV1000211	GSV1000212
Fan Flow	m ³ /h	35	35	35	50	35
UL		.	.	.	.	.
Fan Flow - GSV+GSF10/GSF15	m ³ /h	24 / 27	24 / 27	24 / 27	32 / 38	26 / 92
Power Supply	V-ph-Hz	115-1-50/60	230-1-50/60	12 VDC	24 VDC	48 VDC
Height/Width/depth (H x W x D)	mm	119 x 119 x 57.5	119 x 119 x 57.5	119 x 119 x 57.5	119 x 119 x 57.5	119 x 119 x 57.5
Height/Width/depth (H x W x D)	in	5 x 5 x 2	5 x 5 x 2	5 x 5 x 2	5 x 5 x 2	5 x 5 x 2
Power Absorbed	W	3.6/2.86	4.6/4.5	10.3	6.3	12.2
Absorbed Current	A	0.22/0.175	0.21/0.205	0.865	0.265	0.255
Pre-Fuse T	A	0.5	0.5	0.5	0.5	0.5
Ambient Temperature Limits	°F (°C)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)
Protection Degree	IP/Nema	54/12	54/12	54/12	54/12	54/12
Noise Level	dB(A)	33	33	55	53	55



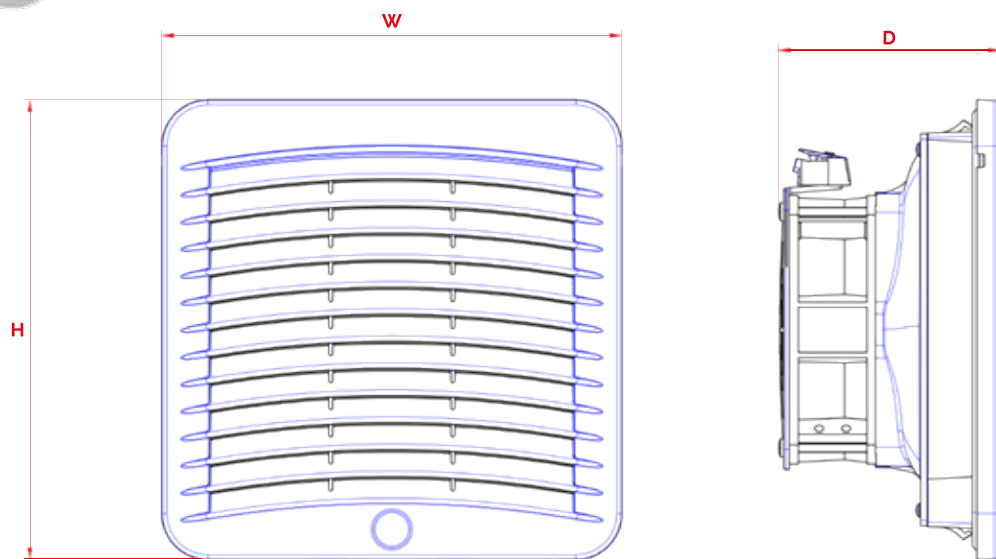
KRYOS³ - GSV15



Model	M.U.	GSV1500203	GSV1500220	GSV1500210	GSV1500211	GSV1500212
Fan Flow	m³/h	67	67	67	67	67
UL		.	.	.	.	.
Fan Flow - GSV+GSF15/GSF20	m³/h	50 / 58	50 / 58	50 / 58	50 / 58	50 / 58
Power Supply	V-ph-Hz	115-1-50/60	230-1-50/60	12 VDC	24 VDC	48 VDC
Height/Width/depth (H x W x D)	mm	152 x 152 x 75	152 x 152 x 75	152 x 152 x 75	152 x 152 x 75	152 x 152 x 75
Height/Width/depth (H x W x D)	in	6 x 6 x 3.5	6 x 6 x 3.5	6 x 6 x 3.5	6 x 6 x 3.5	6 x 6 x 3.5
Power Absorbed	W	22 / 25	22 / 22	10.3	8.1	12.2
Absorbed Current	A	0.335	0.26 / 0.3	0.865	0.335	0.255
Pre-Fuse T	A	1	0.5	1	1	0.5
Ambient Temperature Limits	°F (°C)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)
Protection Degree	IP/Nema	54 / 12	54 / 12	54 / 12	54 / 12	54 / 12
Noise Level	dB(A)	49	49	42	48	42

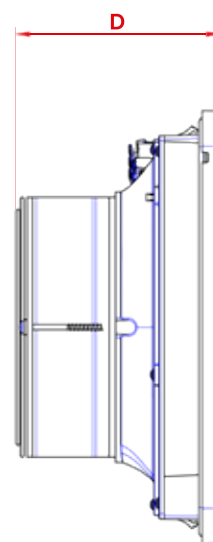
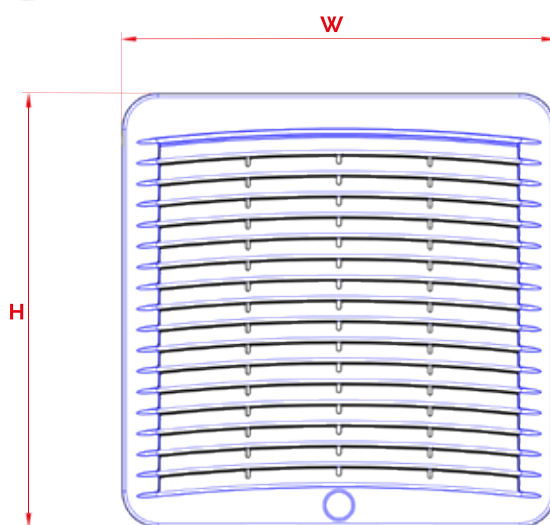


KRYOS³ - GSV20



Model	M.U.	GSV2000203	GSV2000220	GSV2000210	GSV2000211	GSV2000212
Fan Flow	m ³ /h	108	108	108	108	108
UL		.	.	.	.	.
Fan Flow - GSV+GSF20/GSF25	m ³ /h	75 / 88	75 / 88	75 / 88	75 / 88	75 / 88
Power Supply	V-ph-Hz	115-1-50/60	230-1-50/60	12 VDC	24 VDC	48 VDC
Height/Width/depth (H x W x D)	mm	204 x 204 x 98	204 x 204 x 98	204 x 204 x 98	204 x 204 x 98	204 x 204 x 98
Height/Width/depth (H x W x D)	in	8 x 8 x 4	8 x 8 x 4	8 x 8 x 4	8 x 8 x 4	8 x 8 x 4
Power Absorbed	W	22 / 245	22 / 22	42	81	48
Absorbed Current	A	0.26 / 0.29	0.14 / 0.14	0.345	0.335	0.1
Pre-Fuse T	A	0.5	0.5	1	1	0.5
Ambient Temperature Limits	°F (°C)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)
Protection Degree	IP/Nema	54 / 12	54 / 12	54 / 12	54 / 12	54 / 12
Noise Level	dB(A)	49	49	42	48	42

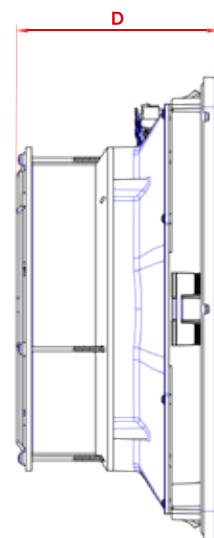
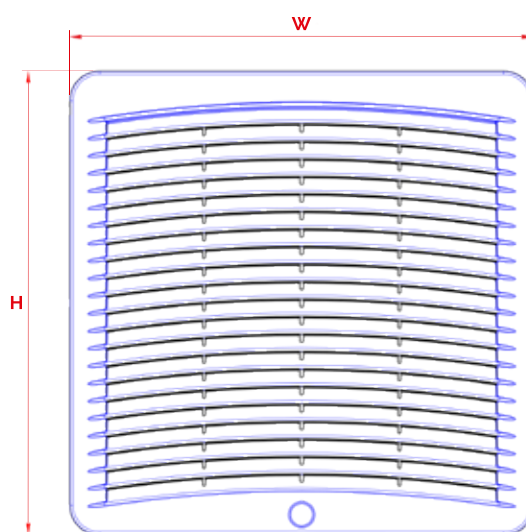
KRYOS³ - GSV25



Model	M.U.	GSV2500203	GSV2500220	GSV2500210	GSV2500211	GSV2500212	GSV2501203	GSV2501220
Fan Flow	m³/h	190	190	190	230	190	270	270
UL								
Fan Flow - GSV+GSF25/GSF30	m³/h	130 / 160	130 / 160	130 / 160	190 / 210	130 / 160	200 / 220	200 / 220
Power Supply	V-ph-Hz	115-1-50/60	230-1-50/60	12 VDC	24 VDC	48 VDC	115-1-50/60	230-1-50/60
Height/Width/depth (H x W x D)	mm	250 x 250 x 118	250 x 250 x 118	250 x 250 x 118	250 x 250 x 118	250 x 250 x 118	250 x 250 x 99	250 x 250 x 99
Height/Width/depth (H x W x D)	in	10 x 10 x 5	10 x 10 x 5	10 x 10 x 5	10 x 10 x 5	10 x 10 x 5	10 x 10 x 4	10 x 10 x 4
Power Absorbed	W	35	35	10.8	26.6	16.1	50	50
Absorbed Current	A	0.59 / 0.575	0.11 / 0.31	0.895	0.86	0.335	0.42 / 0.63	0.25 / 0.33
Pre-Fuse T	A	1	0.5	1.5	1.5	1	1	0.5
Ambient Temperature Limits	°F (°C)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 158 (-10 / 70)	14 / 140 (-10 / 60)	14 / 140 (-10 / 60)
Protection Degree	IP/Nema	54 / 12	54 / 12	54 / 12	54 / 12	54 / 12	54 / 12	54 / 12
Noise Level	dB(A)	55	55	57	59	57	62	62



KRYOS³ - GSV30



Model	M.U.	GSV3000203	GSV3000220	GSV3001203	GSV3001220	GSV3002203	GSV3002220	GSV3002262
Fan Flow	m ³ /h	500	500	700	700	850	850	850
UL		•	•	•	•	•	•	•
Fan Flow	m ³ /h	380 / 450	380 / 450	600 / 670	600 / 670	620 / 700	620 / 700	620 / 700
Power Supply	V-ph-Hz	115-1-50/60	230-1-50/60	115-1-50/60	230-1-50/60	115-1-50/60	230-1-50/60	400/460-4-50/60
H x W x D	mm	318 x 318 x 139	318 x 318 x 139	318 x 318 x 135	318 x 318 x 135	318 x 318 x 160.5	318 x 318 x 160.5	318 x 318 x 160.5
H x W x D	in	12.5 x 12.5 x 5	12.5 x 12.5 x 5	12.5 x 12.5 x 5	12.5 x 12.5 x 5	12.5 x 12.5 x 6	12.5 x 12.5 x 6	12.5 x 12.5 x 6
Power Absorbed	W	50 / 72	50 / 63	125 / 170	115 / 173	115 / 196	142 / 182	115 / 204
Absorbed Current	A	0.42 / 0.61	0.25 / 0.315	1.1 / 1.5	0.51 / 0.77	1.02 / 1.24	0.63 / 0.81	0.23 / 0.355
Pre-Fuse T	A	1	0.5	2	1	2	15	1
Temp. Limits	°F (°C)	14 / 140 (-10 / 60)	14 / 140 (-10 / 60)	-13 / 122 (-25 / 50)	-13 / 131 (-25 / 55)	-13 / 131 (-25 / 55)	-13 / 131 (-25 / 55)	-13 / 140 (-25 / 60)
Protection Degree	IP/Nema	54 / 12	54 / 12	54 / 12	54 / 12	54 / 12	54 / 12	54 / 12
Noise Level	dB(A)	62	62	68	65	71	65	65



GSF / Grills

Model	M.U.	GSF10	GSF15	GSF20	GSF25	GSF30
Side Cabinet Protection Degree	IP / NEMA	54 / 12	54 / 12	54 / 12	54 / 12	54 / 12
Height x Width x Depth	mm	119 x 119 x 28.5	152 x 152 x 32.5	204 x 204 x 33.5	250 x 250 x 47.5	318 x 318 x 34
Height x Width x Depth	in	5 x 5 x 1	6 x 6 x 1	8 x 8 x 1	10 x 10 x 2	12.5 x 12.5 x 1



Replacement Filters

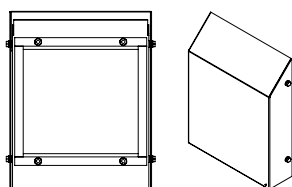
Model	AVAFAGS10	AVAFAGS15	AVAFAGS20	AVAFAGS25	AVAFAGS30
IP54 (PU = 10) & IP55 (PU = 5)					
Compatible Models	GSV10 / GSF10	GSV15 / GSF15	GSV20 / GSF20	GSV25 / GSF25	GSV30 / GSF30

Rainhoods

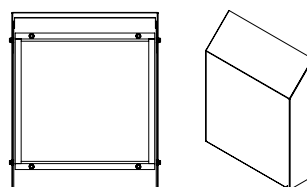
Model	RHA1015	RHR1015	RHS1015	RHA2025	RHR2025	RHS2025	RHA30	RHR30	RHS30
Compatible Filter Fan	GSV10 / GSV15	GSV10 / GSV15	GSV10 / GSV15	GSV20 / GSV25	GSV20 / GSV25	GSV20 / GSV25	GSV30	GSV30	GSV30
Compatible Exhaust Grill	GSV10 / GSV15	GSV10 / GSV15	GSV10 / GSV15	GSV20 / GSV25	GSV20 / GSV25	GSV20 / GSV25	GSV30	GSV30	GSV30
Finish	ANSI61	RAL7035	304SS	ANSI61	RAL7035	304SS	ANSI61	RAL7035	304SS
Type (UL Recognized)	NEMA3R	NEMA3R	NEMA3R	NEMA3R	NEMA3R	NEMA3R	NEMA3R	NEMA3R	NEMA3R



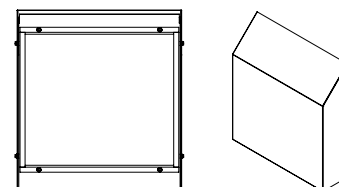
RHx1015



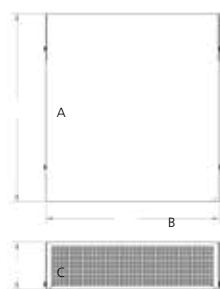
RHx2025



RHx30

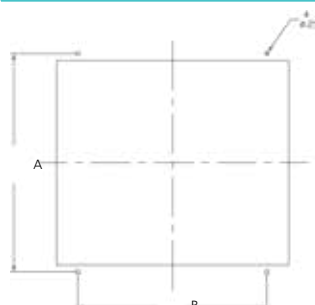


Dimensions



Size	M.U.	RHx1015	RHx2025	RHx30
Dim "A"	in	10.49	14.90	17.74
Dim "B"	in	8.32	12.32	16.32
Dim "C"	in	2.34	3.47	4.47

Hole Patterns



Model	RHx1015	RHx2025	RHx30
Dim "A"	7.00	11.00	13.88
Dim "B"	5.00	9.00	12.00



Convection Heater

Model	M.U.	15786.7	15787.5	15791.7	15793.3	370335.01
Specification						
Rated Power @ 50°F	W	30	50	75	100	150
Voltage	VAC	110 - 240	110 - 240	110 - 240	110 - 240	110 - 240
Operating Temperature	°F	-49° to 158°	-49° to 158°	-49° to 158°	-49° to 158°	-49° to 158°
Connection Cable		2 x 0.05mm ² cable - 19.68" (500mm) long				
Mounting Option		DIN Clip for 35mm rail				
Dimension	mm	90 x 82 x 35	90 x 82 x 35	150 x 82 x 35	200 x 82 x 35	200 x 82 x 35
Dimension	in	3.5 x 3 x 1	3.5 x 3 x 1	6 x 3 x 1	8 x 3 x 1	8 x 3 x 1
Recommended Fuse (time delay)	110V / 240V	2A / 4A	4A / 6.3A	4A / 6.3A	4A / 6.3A	6.3A / 6.3A
Weight	oz	10.3	19.63	22.58	22.93	



Fan Heater

Model	M.U.	FGC3116	FGC3111	FGC2000.1D	FGC2002.1D	FGC2001.1D	FGC2003.1D
Specification							
Nominal Power @ 50°F	W	200/300/400	200/300/400	300/600	300/600	450/800	450/800
Voltage	VAC	115	230	115	230	115	230
Operating Temperature	°F	14° to 158°	14° to 158°	-40° to 122°	-40° to 122°	-40° to 122°	-40° to 122°
Harness Length	in	9.44	9.44	N/A	N/A	N/A	N/A
Recommended Fuse (time delay)		6.3A	6.3A	5A	5A	6A	6A
Dimension	mm	96.5 x 71 x 70	96.5 x 71 x 70	150 x 82 x 110	150 x 82 x 110	150 x 82 x 110	150 x 82 x 110
Dimension	in	4 x 3 x 3	4 x 3 x 3	6 x 3 x 4	6 x 3 x 4	6 x 3 x 4	6 x 3 x 4
Weight	oz	9.69	9.69	27	27	27	27



Thermostat

Model	M.U.	FGT101	FGT201	FGDT2101	FGDT2201	FGDT2301
Specification						
Function		Heater Control	Fan Control	Heater / Fan	Heater / Fan	Fan / Fan
Contact Position		NC	NO	NC / NO	NC / NC	NO / NO
Voltage	VDC	12 - 24	12 - 24	12 - 24	12 - 24	12 - 24
Voltage	VAC	110 - 250	110 - 250	110 - 240	110 - 240	110 - 240
Current Rating	12 / 24 VDC	5 / 2.5	5 / 2.5	5 / 2.5	5 / 2.5	5 / 2.5
Current Rating	110 / 250 VAC	15 / 16	15 / 16	15 / 16	15 / 16	15 / 16
Size	mm	65 x 33 x 43	65 x 33 x 43	115 x 33 x 43	115 x 33 x 43	115 x 33 x 43
Size	in	2.5 x 1 x 2	2.5 x 1 x 2	4.5 x 1 x 2	4.5 x 1 x 2	4.5 x 1 x 2
Hysteresis	°F	12.6 +/- 7	12.6 +/- 7	12.6 +/- 7	12.6 +/- 7	12.6 +/- 7
Operating Temperature	°F	1 x 2 pole terminal	1 x 2 pole terminal	2 x 2 pole terminals	2 x 2 pole terminals	2 x 2 pole terminals



• All Heaters & Thermostats are  & 

COSMOTEC
Industrial Cooling

STULZ Air Technology Systems, Inc.

1572 Tilco Drive
Frederick, MD 21704
info@cosmotec-us.com
Tel. 301.620-2033
Fax. 301.662.5487

cosmotec-us.com

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