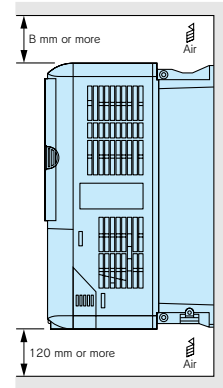
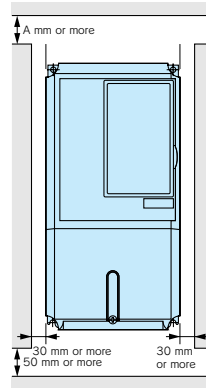
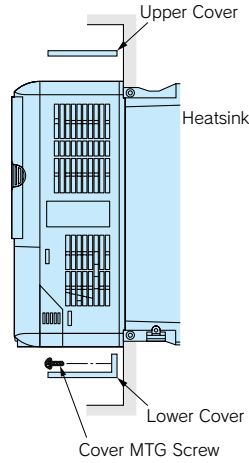
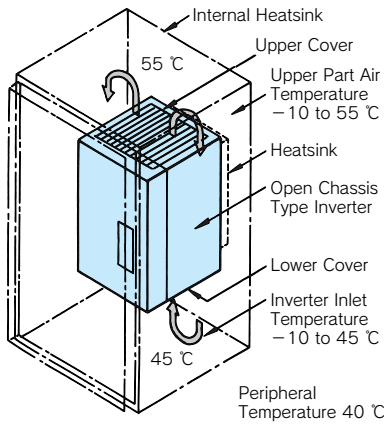


# Mounting to a Gasketed Cabinet (Internal Sink)

The standard enclosure (with the heatsink mounted internally) can be easily changed to an externally mounted heatsink arrangement, but the enclosure's mounting face must be gasketed.

Remove the upper and lower covers for the models of 15 kW or less in 200 V and 400 V classes.

When using open chassis type inverters of 200 V/400 V 22 kW or more, secure spaces for eyebolts and wiring of the main circuit.



Note: Refer to the following specifications for securing spaces.

200 V class inverters of 110 kW or 400 V class inverters of 160 to 220 kW\*: A = 120, B = 120  
 400 V class inverters of 300 kW\*: A = 300, B = 300  
 All other inverters\*: A = 50, B = 120

\*: If, however, there is a fan in the top of the control panel with sufficient exhaust capacity, the following dimensions may be used: A = 50, B = 120.

## Inverter Heat Loss

### 200 V Class

Model CIMR-F7A		20P4	20P7	21P5	22P2	23P7	25P5	27P5	2011	2015	2018	2022	2030	2037	2045	2055	2075	2090	2110		
Inverter Capacity	kVA	1.2	1.6	2.7	3.7	5.7	8.8	12	17	22	27	32	44	55	69	82	110	130	160		
Rated Current	A	3.2	4.1	7.0	9.6	15	23	31	45	58	71	85	115	145	180	215	283	346	415		
Heat Loss W	Fin	W	20	27	50	70	112	164	219	374	429	501	586	865	1015	1266	1588	2019	2437	2733	
	Inside Unit	W	39	42	50	59	74	84	113	170	183	211	274	352	411	505	619	838	997	1242	
	Total Heat Loss	W	59	69	100	129	186	248	332	544	612	712	860	1217	1426	1771	2207	2857	3434	3975	
Fin Cooling		Self cooled					Fan cooled														

### 400 V Class

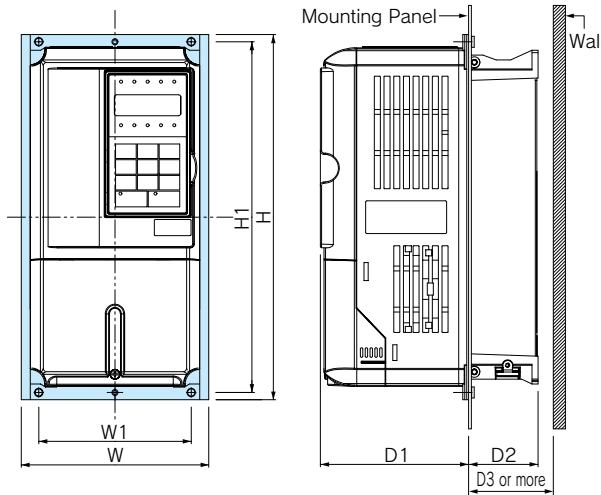
Model CIMR-F7A		40P4	40P7	41P5	42P2	43P7	45P5	47P5	4011	4015	4018	4022	4030	4037	4045	4055	4075	4090	4110	4132	4160	4185	4220	4300	
Inverter Capacity	kVA	1.4	1.6	2.8	4.0	5.8	9.5	13	18	24	30	34	46	57	69	85	110	140	160	200	230	280	390	510	
Rated Current	A	1.8	2.1	3.7	5.3	7.6	12.5	17	24	31	39	45	60	75	91	112	150	180	216	260	304	370	506	675	
Heat Loss W	Fin	W	14	17	36	59	80	127	193	252	326	426	466	678	784	901	1203	1399	1614	2097	2388	2791	3237	3740	5838
	Inside Unit	W	39	41	48	56	68	82	114	158	172	208	259	317	360	415	495	575	671	853	1002	1147	1372	1537	2320
	Total Heat Loss	W	53	58	84	115	148	209	307	410	498	634	725	995	1144	1316	1698	1974	2285	2950	3390	3938	4609	5277	8158
Fin Cooling		Self cooled					Fan cooled																		

# Attachments

## Heatsink External Mounting Attachment

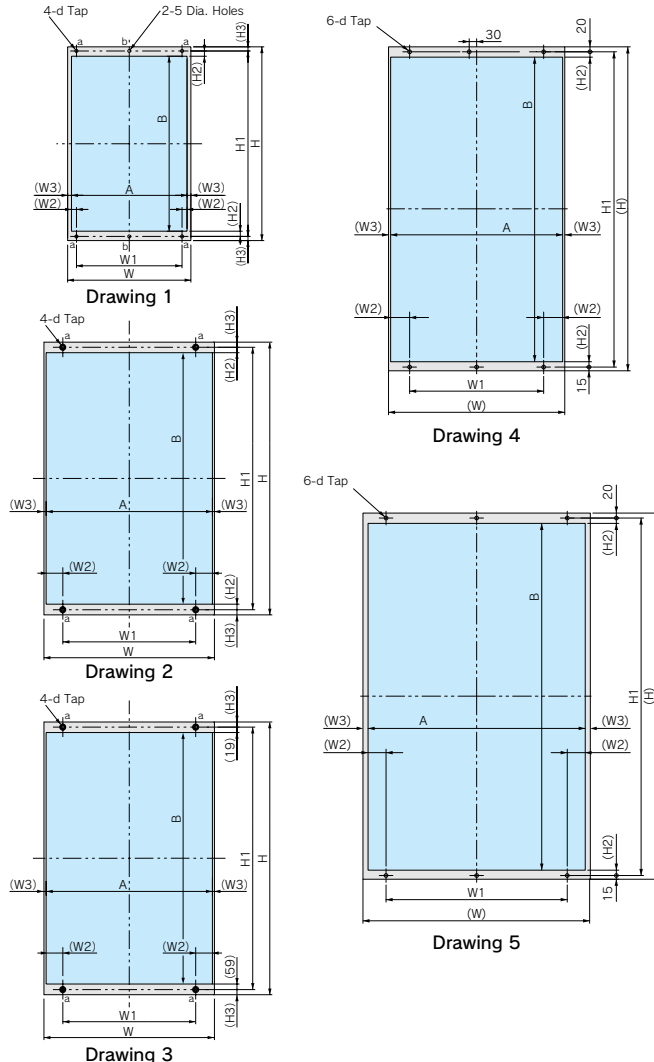
The Varispeed F7 inverters under the 200/400 V class 18.5 kW or less need this attachment for mounting the heatsink externally. This attachment expands the outer dimensions of the width and height of the inverter. (Attachment is not required for inverters of 22 kW or more.)

Note: Contact your Yaskawa representative about reusing an attachment that was used with a conventional model such as the VS-616G5. (in mm)



Model CIMR-F7A	Attachment Order Code	W	H	W1	H1	D1	D2	D3
20P4	EZZ08676A	155	302	126	290	122.6	37.4	40
20P7								
21P5								
22P2								
23P7								
25P5	EZZ08676B	210	330	180	316	136.1	63.4	70
27P5								
2011								
2015	EZZ08676C	250	392	216	372	133.6	76.4	85
2018								
40P4	EZZ08676A	155	302	126	290	122.6	37.4	40
40P7								
41P5								
42P2								
43P7								
45P5	EZZ08676B	210	330	180	316	136.1	63.4	70
47P5								
4011								
4015	EZZ08676C	250	392	216	372	133.6	76.4	85
4018								

## Panel Cut for External Mounting of Cooling Fin (Heatsink)



Model CIMR-F7A	Drawing	W	H	W1	(W2)	(W3)	H1	(H2)	(H3)	A	B	d
20P4	1	155	302	126	6	8.5	290	9.5	6	138	271	M5
20P7												
21P5												
22P2												
23P7												
25P5	2	210	330	180	8.5	6.5	316	9	7	197	298	
27P5												
2011												
2015	2	250	392	216	24.5	3	385	8	7.5	244	369	M6
2018												
2022	2	250	400	195	24.5	3	385	8	7.5	244	369	M10
2030												
2037												
2045												
2055												
2075	2	450	725	325	54.5	8	700	13.5	12.5	434	673	
2090												
2110	2	500	850	370	57	8	820	19	15	484	782	M12
2110												
40P4	1	155	302	126	6	8.5	290	9.5	6	138	271	M5
40P7												
41P5												
42P2												
43P7												
45P5	2	210	330	180	8.5	6.5	316	9	7	197	298	
47P5												
4011												
4015	2	250	392	216	24.5	3	385	8	7.5	244	369	M6
4018												
4022	2	275	450	220	24.5	3	435	8	7.5	269	419	M6
4030												
4037												
4045												
4055												
4075	2	450	725	325	54.5	8	700	13.5	12.5	434	673	M10
4090												
4110	2	500	850	370	57	8	820	19	15	484	782	M12
4132												
4160	3	575	925	445	55	10	895	*	15	555	817	
4185	4	710	1305	540	76.5	8.5	1270	21.5	*	693	1227	M12
4220												
4300	5	916	1475	730	72.5	20.5	1440	21.5	*	875	1397	

\* : The sizes are different between the top and the bottom. Refer to Drawings 3 to 5.