

# CHILLED WATER FAN COIL UNITS DUCTED TYPE



## **INSIDE**

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**IZNH - Series**

**IZUMI CORPORATION, TOKYO, JAPAN**

## TECHNICAL SPECIFICATIONS

MODEL				IZNH30BPVC		IZNH36BPVC		IZNH48BPVC		IZNH60BPVC		IZNH75BPVC		IZNH85BPVC		
				CW	DW	CW	DW	CW	DW	CW	DW	CW	DW	CW	DW	
ESP=50Pa	Water cooling (A)	Total Capacity	(kw)	10.88	7.81	15.70	10.70	20.20	15.05	25.81	19.73	28.28	20.85	34.15	25.51	
		Sensible Capacity	(kw)	7.44	5.16	10.73	7.16	13.55	9.65	17.33	12.64	19.2	13.62	23.28	16.66	
		Water flow rate	( l/hr)	1868	746	2696	1021	3469	1436	4432	1883	4856	1990	5865	2434	
		Pressure drop	(Kpa)	27.81	25.70	30.13	21.53	25.14	26.91	26.58	34.03	25.70	24.98	27.17	30.68	
	Water heating (B)	Capacity	(kw)	14.93	12.88	20.46	17.47	24.95	22.20	32.10	28.92	36.70	32.55	44.71	39.75	
		Water heating (C)	capacity	(kw)	25.58	-	34.77	-	42.06	-	54.18	-	62.14	-	75.82	-
			Water flow rate	( l/hr)	2244	-	3049	-	3689	-	4750	-	5447	-	6647	-
		Pressure drop	(Kpa)	30.20	-	28.95	-	21.57	-	23.44	-	24.18	-	26.35	-	
	Air Flow		(l/S)	680		800		1010		1132		1342		1648		
	ESP=75Pa	Water cooling (A)	Total Capacity	(kw)	10.17	7.26	15.16	10.33	19.17	14.29	24.43	18.72	26.84	19.84	32.30	24.20
Sensible Capacity			(kw)	6.94	4.79	10.34	6.90	12.84	9.76	16.39	11.98	18.19	12.94	21.97	15.77	
Water flow rate			( l/hr)	1747	693	2603	985	3292	1363	4196	1786	4608	1893	5547	2309	
Pressure drop			(Kpa)	24.66	22.58	28.31	20.22	22.91	24.56	24.10	30.97	23.31	22.89	24.60	27.96	
Water heating (B)		Capacity	(kw)	13.88	11.99	19.68	16.84	23.65	21.07	30.33	27.37	34.65	30.82	42.03	37.49	
		Water heating (C)	capacity	(kw)	23.75	-	33.43	-	39.85	-	51.15	-	58.60	-	71.20	-
Water flow rate			( l/hr)	2083	-	2932	-	3496	-	4485	-	5137	-	6242	-	
Pressure drop			(Kpa)	26.21	-	27.00	-	19.50	-	21.14	-	21.78	-	23.54	-	
Air Flow		(l/S)	620		762		945		1056		1252		1529			
ESP=100Pa		Water cooling (A)	Total Capacity	(kw)	9.47	6.64	14.48	9.81	18.05	13.49	22.52	17.26	24.94	18.49	30.06	22.57
	Sensible Capacity		(kw)	6.43	4.38	9.85	6.55	12.08	8.64	15.09	11.04	16.87	12.03	20.39	14.68	
	Water flow rate		( l/hr)	1627	634	2487	936	3099	1287	3268	1647	4282	1764	5162	2154	
	Pressure drop		(Kpa)	21.71	19.29	26.09	18.47	20.71	22.21	20.83	26.86	20.55	20.20	21.64	24.74	
	Water heating (B)	Capacity	(kw)	12.74	11.00	18.66	15.98	22.25	19.87	27.37	25.24	32.02	28.58	38.83	34.76	
		Water heating (C)	capacity	(kw)	21.73	-	31.64	-	37.50	-	47.05	-	54.12	-	65.70	-
	Water flow rate		( l/hr)	1906	-	2774	-	3288	-	4124	-	4746	-	5759	-	
	Pressure drop		(Kpa)	22.52	-	24.45	-	17.57	-	18.18	-	18.91	-	20.37	-	
	Air Flow		(l/S)	556		712		877		955		1140		1390		
	Inlet and Outlet Pipe Connection		Type	Male Water Pipe Thread												
		Diameter Nominal	(Inch)	1		1		1 1/4		1 1/4		1 1/2		1 1/2		
Drain Connection		Diameter Nominal	(Inch)	3/4		3/4		3/4		3/4		3/4		3/4		
Evaporator Coil		Face area	(m <sup>2</sup> )	0.35		0.48		0.85		0.96		0.76		0.86		
		Row		3		3		3		3		4		4		
		Fin Type/Fin Pitch	(mm.)	Louver / 1.21		Louver / 1.21		Louver / 1.41		Louver / 1.21		V-Waffle / 1.81		V-Waffle / 1.81		
		No. of circuit		13	7	17	10	26	14	32	16	18	10	21	11	
		Tube	(mm.)	Ø7		Ø7		Ø7		Ø7		Ø9.5		Ø9.5		
Fan		Type	Double Inlet Centrifugal fan													
		Size Dia.X Leugth	(mm.)	Ø203 x 236		Ø203 x 236		Ø203 x 236		Ø203 x 287		Ø203 x 287		Ø203 x 236		
		No.		2		2		2		2		3		4		
Fan Motor		Type	Permanent Split capacitor													
		Power supply	(V/Ph/Hz)	220-240 / 1 / 50												
		No.		1		1		1		1		2		2		
		Running current	(A)	2.10		2.10		3.50		3.50		2.10 x 1-1.70 x 1		2.10 x 2		
		Nominal Output	(W)	311		311		527		527		311 x 1-200 x 1		311 x 2		
Nominal are flow rate at static 0 pa		(l/S)	783		845		1134		1266		1512		1850			
Sound Pressure level at 1 m.		dB(A)	48/45/44/40/38		48/46/45/44/43		51/49/48/47/46		51/49/47/45/43		54/49/43/38/36		56/49/44/40/37			
Unit Dimension H x W x D		(mm.)	300x1180x600		360x1400x600		360x1400x660		440x1400x850		440x1650x810		400x1850x810			
Packing Dimension H x W x D		(mm.)	335x1270x685		410x1490x745		410x1490x745		485x1490x935		545x1770x915		545x1970x915			
Net Weight		(Kg)	45		62		73		80		88		98			
Gross Weight		(Kg)	50		68		79		88		106		118			

**Note :**

**A - Cooling capacity**

For standard cooling unit (-CW) is based on : inlet water temp.7°C;Outlet water temp.12°C;Inlet air temp.27°C DB, 19 ° C WB at turbo fan speed.

For district cooling unit (-DW) is based on : inlet water temp.5.5°C;Outlet water temp.14.5°C;Inlet air temp.24°C DB, 17.8 ° C WB at turbo fan speed.

**B - Heating capacity** is based on : Inlet water temp.50°C;Same water flow as in cooling;Inlet air temp.20°C DB at turbo fan speed.

**C - Heating capacity** is based on : Inlet water temp.70°C;Outlet water temp.60°C; Inlet air temp.20°C DB at turbo fan speed.

Sound pressure level is base on without filter and dry coil at ESP 0 Pa.

**FAN PERFORMANCE DATA**

MODEL	FAN SPEED	AIR FLOW RATE(I/S)						
		EXTERNAL STATIC PRESSURE (Pa)						
		0	25	50	75	100	125	150
IZNH30BPVC	T-B	783	734	680	620	556	482	400
	HI	695	648	600	546	490	422	344
	MED	578	544	508	464	414	356	288
	LOW	513	478	440	400	354	305	252
	S-L	458	428	392	350	305	260	214
IZNH36BPVC	T-B	845	832	800	762	712	635	540
	HI	748	716	682	640	590	530	450
	MED	630	600	564	530	480	428	356
	LOW	560	534	500	455	405	350	290
	S-L	490	464	430	388	340	290	230
IZNH48BPVC	T-B	1134	1074	1010	945	877	801	710
	HI	1070	1017	960	900	838	768	678
	MED	927	903	870	825	770	702	618
	LOW	800	780	757	724	686	630	569
	S-L	697	695	678	650	613	570	506
IZNH60BPVC	T-B	1266	1200	1132	1056	955	834	690
	HI	1026	1010	984	930	852	753	636
	MED	820	798	774	744	710	636	543
	LOW	678	675	660	636	600	543	465
	S-L	588	589	580	561	528	480	408
IZNH75BPVC	T-B	1512	1432	1342	1252	1140	1020	873
	HI	1251	1192	1130	1050	949	832	684
	MED	1043	990	928	860	772	671	546
	LOW	906	859	802	736	660	570	470
	S-L	794	757	697	630	547	461	367
IZNH85BPVC	T-B	1850	1752	1648	1529	1390	1248	1084
	HI	1489	1430	1355	1274	1168	1046	900
	MED	1270	1197	1120	1038	948	844	724
	LOW	1097	1040	963	880	784	675	562
	S-L	964	915	847	765	673	576	463

# COOLING PERFORMANCE DATA



PERFORMANCE DATA MODEL - IZNH30BPVC-CW  
 STANDARD COOLING (7°C ENTERING WATER TEMP)

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE								
				27CDB / 19CWB				24CDB / 17.8CWB				
				TH	SH	WFR	PD	TH	SH	WFR	PD	
50	TURBO	680	4	12.29	8.21	2637	51.80	10.46	6.75	2245	38.85	
			5	10.88	7.44	1868	27.81	8.86	5.90	1521	19.24	
			6	9.33	6.63	1335	15.22	7.12	5.04	1019	9.25	
	HIGH	600	4	11.15	7.44	2393	43.56	9.49	6.12	2037	32.22	
			5	9.94	6.77	1708	23.68	8.02	5.34	1378	16.15	
			6	8.44	5.99	1208	12.77	6.35	4.51	909	7.59	
	MEDIUM	508	4	9.77	6.50	2097	34.41	8.32	5.35	1787	25.75	
			5	9.01	6.07	1547	19.84	7.47	4.88	1282	14.27	
			6	7.34	5.21	1051	9.92	5.30	3.83	759	5.56	
	LOW	440	4	8.70	5.78	1867	27.86	7.41	4.76	1591	20.91	
			5	8.07	5.42	1386	16.24	6.71	4.37	1152	11.76	
			6	6.46	4.59	924	7.85	3.40	2.83	487	2.54	
	SUPER LOW	392	4	7.91	5.25	1699	23.52	6.74	4.32	1446	17.62	
			5	7.33	4.92	1259	13.74	6.06	3.95	1042	9.82	
			6	5.78	4.12	827	6.44	3.25	2.63	465	2.34	
	75	TURBO	620	4	11.44	7.63	2455	45.53	9.74	6.28	2090	36.16
				5	10.17	6.94	1747	24.66	8.24	5.48	1415	16.92
				6	8.67	6.15	1241	13.41	6.55	4.65	937	8.02
HIGH		546	4	10.35	6.89	2221	38.08	8.82	5.67	1892	28.53	
			5	9.36	6.35	1608	21.26	7.72	5.08	1326	15.06	
			6	7.80	5.53	1117	11.12	5.77	4.13	825	6.39	
MEDIUM		464	4	9.08	6.03	1949	29.91	7.74	4.97	1661	22.59	
			5	8.44	5.68	1450	17.67	7.02	4.58	1206	12.72	
			6	6.78	4.81	971	8.53	3.47	2.92	496	2.62	
LOW		400	4	8.05	5.33	1727	24.23	6.85	4.39	1471	18.17	
			5	7.46	5.01	1281	14.21	6.17	4.02	1060	10.06	
			6	5.90	4.20	844	6.68	3.27	2.67	469	2.37	
SUPER LOW		350	4	7.20	4.77	1545	19.84	6.13	3.92	1315	14.93	
			5	6.64	4.46	1141	11.60	5.48	3.57	941	8.09	
			6	3.79	3.09	543	3.08	3.10	2.45	443	2.14	
100		TURBO	556	4	10.50	6.99	2253	38.84	8.94	5.76	1919	29.26
				5	9.47	6.43	1627	21.71	7.81	5.15	1342	15.42
				6	7.92	5.62	1134	11.40	5.88	4.20	842	6.94
	HIGH	490	4	9.49	6.31	2037	32.42	8.09	5.20	1736	24.45	
			5	8.80	5.92	1512	19.04	7.30	4.77	1253	13.65	
			6	7.12	5.05	1019	9.30	3.54	3.02	506	2.72	
	MEDIUM	414	4	8.28	5.49	1776	25.47	7.05	4.52	1513	19.11	
			5	7.67	5.15	1317	14.92	6.36	4.15	1092	10.71	
			6	6.10	4.34	873	7.11	3.32	2.72	475	2.43	
	LOW	354	4	7.27	4.81	1560	20.19	6.19	3.96	1328	15.21	
			5	6.71	4.50	1152	11.79	5.54	3.61	951	8.26	
			6	5.17	3.72	741	5.34	3.11	2.47	446	2.16	
	SUPER LOW	305	4	6.41	4.24	1375	9.52	5.45	3.48	1169	12.15	
			5	5.89	3.95	1011	9.14	4.82	3.15	828	6.50	
			6	3.56	2.83	509	2.76	2.92	2.25	418	1.92	
	125	TURBO	482	4	9.37	6.23	2010	31.73	7.98	5.13	1713	23.87
				5	8.71	5.85	1495	18.66	7.22	4.71	1240	13.43
				6	7.01	4.97	1004	9.04	3.52	2.99	503	2.59
HIGH		422	4	8.41	5.58	1804	26.19	7.16	4.59	1537	19.66	
			5	7.79	5.23	1338	15.37	6.47	4.22	1111	10.97	
			6	6.21	4.42	889	10.35	3.34	2.76	479	2.48	
MEDIUM		356	4	7.30	4.84	1567	20.35	6.22	3.98	1334	15.33	
			5	6.74	4.52	1158	11.90	5.56	3.63	956	8.33	
			6	5.21	3.74	745	5.37	3.12	2.48	447	2.17	
LOW		305	4	6.41	4.24	1375	16.19	5.45	3.48	1169	12.16	
			5	5.89	3.95	1011	9.14	4.82	3.15	828	6.49	
			6	3.56	2.83	509	2.76	2.92	2.25	418	1.92	
SUPER LOW		260	4	5.58	3.68	1197	12.62	4.73	3.03	1016	9.31	
			5	5.09	3.42	874	7.14	3.07	2.22	528	2.96	
			6	3.29	2.55	471	2.40	2.71	2.03	388	1.69	

I/S = LITER PER SECOND  
 TH = TOTAL CAPACITY (KW)  
 SH = SENSIBLE CAPACITY (KW)  
 WFR = WATER FLOW RATE (l/hr)  
 PD = WATER PRESSURE DROP (kPa)

# COOLING PERFORMANCE DATA



## PERFORMANCE DATA MODEL IZNH30BPVC-DW

### DISTRICT COOLING (5.5°C ENTERING WATER TEMP.)

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE							
				27CDB / 19CWB				24CDB / 17.8CWB			
				TH	SH	WFR	PD	TH	SH	WFR	PD
50	TURBO	680	8	11.90	7.82	1277	66.70	9.92	6.31	1065	48.40
			9	9.99	6.75	953	39.54	7.81	5.16	746	25.70
			10	7.95	5.63	683	21.96	4.67	3.59	401	8.57
	HIGH	600	8	10.82	7.10	1162	56.49	9.03	5.73	969	40.89
			9	9.14	6.16	872	33.87	7.07	4.67	674	21.52
			10	7.21	5.10	620	18.52	2.82	2.66	242	3.53
	MEDIUM	508	8	9.52	6.23	1022	44.91	7.94	5.03	853	32.65
			9	8.49	5.63	810	29.70	6.16	4.07	587	16.91
			10	6.29	4.45	540	14.52	2.68	2.42	230	3.23
	LOW	440	8	8.50	5.55	912	36.74	7.09	4.48	761	26.72
			9	7.55	5.00	720	24.17	5.43	3.59	519	13.58
			10	5.53	3.93	475	11.58	2.56	2.23	220	2.98
SUPER LOW	392	8	7.75	5.05	831	31.20	6.46	4.08	693	22.69	
		9	6.87	4.55	656	20.48	4.88	3.24	466	11.21	
		10	4.92	3.52	423	9.42	2.46	2.08	212	2.77	
75	TURBO	620	8	11.10	7.28	1191	59.03	9.26	5.88	994	42.69
			9	9.34	6.30	891	35.13	7.26	4.79	693	22.58
			10	7.40	5.24	636	19.37	2.84	2.71	244	3.58
	HIGH	546	8	10.07	6.59	1081	49.65	8.40	5.33	902	36.00
			9	8.82	5.88	841	31.80	6.54	4.32	624	19.01
			10	6.68	4.72	574	16.19	2.74	2.52	236	3.35
	MEDIUM	464	8	8.87	5.79	952	39.57	7.40	4.68	794	28.76
			9	7.88	5.22	752	26.06	5.69	3.76	543	14.73
			10	5.81	4.12	499	12.63	2.61	2.30	224	3.07
	LOW	400	8	7.87	5.13	845	32.13	6.57	4.15	705	23.34
			9	6.99	4.63	667	21.12	4.98	3.30	475	11.62
			10	5.03	3.59	432	9.78	2.48	2.11	213	2.81
SUPER LOW	350	8	7.06	4.60	758	26.53	5.88	3.71	631	19.24	
		9	6.25	4.14	596	17.34	4.34	2.90	414	9.09	
		10	3.19	2.65	274	4.39	2.37	1.95	203	2.58	
100	TURBO	556	8	10.21	6.69	1096	50.90	8.52	5.40	915	36.92
			9	8.90	5.94	849	32.24	6.64	4.38	634	19.29
			10	6.78	4.80	583	16.61	2.76	2.55	237	3.38
	HIGH	490	8	9.25	6.05	993	42.60	7.72	4.89	829	31.03
			9	8.25	5.47	787	28.21	5.97	3.94	569	16.00
			10	6.09	4.31	524	13.77	2.65	2.37	228	3.17
	MEDIUM	414	8	8.10	5.28	869	33.75	6.75	4.27	725	24.51
			9	7.20	4.76	687	22.23	5.14	3.40	491	12.30
			10	5.21	3.71	448	10.40	2.51	2.15	216	2.87
	LOW	354	8	7.13	4.64	765	26.96	5.94	3.75	637	19.55
			9	6.31	4.18	602	17.62	4.39	2.93	419	9.29
			10	3.21	2.67	275	4.43	2.38	1.96	204	2.61
SUPER LOW	305	8	6.30	4.10	676	21.71	5.23	3.30	562	15.65	
		9	5.55	3.68	530	14.10	2.89	2.16	276	4.46	
		10	3.01	2.43	259	3.97	2.25	1.80	193	2.36	
125	TURBO	482	8	9.14	5.97	981	41.73	7.62	4.83	818	30.31
			9	8.14	5.39	776	27.57	5.89	3.89	562	15.60
			10	6.01	4.25	516	13.40	2.64	2.35	227	3.14
	HIGH	422	8	8.22	5.36	882	34.66	6.86	4.33	736	25.20
			9	7.30	4.83	696	22.78	5.23	3.46	499	12.68
			10	5.31	3.78	456	10.76	2.53	2.17	217	2.90
	MEDIUM	356	8	7.16	4.66	769	27.17	5.97	3.77	640	19.73
			9	6.34	4.20	605	17.77	4.42	2.94	421	9.38
			10	3.21	2.68	276	4.44	2.38	1.97	205	2.61
	LOW	305	8	6.30	4.10	676	21.71	5.23	3.30	562	15.67
			9	5.55	3.68	530	14.10	2.89	2.16	276	4.46
			10	3.01	2.43	259	3.97	2.25	1.80	193	2.36
SUPER LOW	260	8	5.50	3.57	590	17.10	4.55	2.87	488	12.22	
		9	4.81	3.19	459	10.93	2.69	1.96	257	3.92	
		10	2.81	2.20	242	3.50	2.11	1.63	181	2.11	

I/S = LITER PER SECOND  
 TH = TOTAL CAPACITY (KW)  
 SH = SENSIBLE CAPACITY (KW)  
 WFR = WATER FLOW RATE (l/hr)  
 PD = WATER PRESSURE DROP (kPa)

# COOLING PERFORMANCE DATA



## PERFORMANCE DATA MODEL IZNH36BPVC-CW

### STANDARD COOLING (7°C ENTERING WATER TEMP.)

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE								
				27CDB / 19CWB				24CDB / 17.8CWB				
				TH	SH	WFR	PD	TH	SH	WFR	PD	
50	TURBO	800	4	17.67	11.81	3791	55.25	15.05	9.72	3231	41.72	
			5	15.70	10.73	2696	30.13	12.91	8.57	2217	21.26	
			6	13.58	9.61	1943	16.76	10.55	7.39	1510	10.67	
	HIGH	682	4	15.62	10.41	3351	44.42	13.32	8.57	2857	33.51	
			5	14.09	9.56	2420	24.86	11.76	7.73	2020	18.01	
			6	11.99	8.45	1717	13.51	9.22	6.46	1320	8.45	
	MEDIUM	564	4	13.44	8.93	2884	34.07	11.47	7.36	2461	25.68	
			5	12.54	8.42	2155	20.22	10.47	6.81	1798	14.69	
			6	10.27	7.22	1471	10.20	7.71	5.43	1103	6.15	
	LOW	500	4	12.20	8.09	2617	28.65	10.41	6.67	2234	21.62	
			5	11.36	7.62	1952	16.94	9.46	6.15	1624	12.22	
			6	9.26	6.51	1326	8.51	4.52	3.85	646	2.37	
	SUPER LOW	430	4	10.78	7.14	2314	23.01	9.20	5.89	1974	17.33	
			5	10.00	6.70	1717	13.51	8.32	5.41	1429	9.71	
			6	8.08	5.69	1156	6.68	4.27	3.51	611	2.14	
	75	TURBO	762	4	17.02	11.36	3652	51.46	14.51	9.36	3113	39.05
				5	15.16	10.34	2603	28.31	12.55	8.31	2155	20.22
				6	13.08	9.24	1872	15.69	10.14	7.09	1451	9.94
HIGH		640	4	14.86	9.89	3188	40.74	12.67	8.15	2720	30.69	
			5	13.53	9.16	2324	23.12	11.42	7.47	1961	17.08	
			6	11.40	8.03	1632	12.30	8.71	6.11	1247	7.64	
MEDIUM		530	4	12.79	8.49	2744	31.18	10.91	7.00	2342	23.51	
			5	11.91	7.99	2045	18.42	9.93	6.46	1705	13.35	
			6	9.75	6.85	1395	9.28	7.20	5.11	1031	5.43	
LOW		455	4	11.29	7.48	2424	25.00	9.64	6.17	2068	18.83	
			5	10.49	7.03	1802	14.74	8.74	5.68	1502	10.62	
			6	8.52	5.99	1219	7.35	4.36	3.63	624	2.32	
SUPER LOW		388	4	9.89	6.54	2123	19.73	8.44	5.40	1811	14.89	
			5	9.16	6.13	1573	11.56	7.60	4.94	1305	8.27	
			6	7.29	5.16	1044	5.55	4.09	3.29	586	2.00	
100		TURBO	712	4	16.15	10.77	3466	47.28	13.77	8.87	2954	35.56
				5	14.48	9.85	2487	26.09	12.07	7.95	2073	18.86
				6	12.41	8.75	1776	14.33	9.58	6.70	1371	9.01
	HIGH	590	4	13.93	9.26	2990	36.34	11.89	7.63	2551	27.38	
			5	12.94	8.70	2222	21.34	10.85	7.07	1863	15.62	
			6	10.67	7.50	1527	10.88	8.06	5.67	1154	6.67	
	MEDIUM	480	4	11.80	7.82	2533	27.04	10.07	6.45	2161	20.37	
			5	10.98	7.36	1886	15.99	9.15	5.95	1572	11.52	
			6	8.94	6.28	1279	7.98	4.45	3.75	636	2.32	
	LOW	405	4	10.26	6.78	2201	21.05	8.75	5.60	1878	15.85	
			5	9.50	6.37	1632	12.33	7.89	5.13	1355	8.85	
			6	7.62	5.38	1090	6.02	4.17	3.38	596	2.06	
	SUPER LOW	340	4	8.85	5.84	1899	16.20	7.54	4.82	1619	12.16	
			5	8.18	5.47	1404	9.39	6.74	4.38	1157	6.70	
			6	4.73	3.81	677	2.58	3.87	3.03	555	1.80	
	125	TURBO	635	4	14.77	9.83	3169	40.31	12.60	8.10	2704	30.38
				5	13.47	9.11	2313	22.93	11.36	7.43	1952	16.94
				6	11.33	7.97	1621	12.15	8.65	6.07	1238	7.55
HIGH		530	4	12.79	8.49	2744	31.18	10.91	7.00	2342	23.51	
			5	11.91	7.99	2045	18.42	9.93	6.46	1705	13.35	
			6	9.75	6.85	1395	9.28	7.20	5.11	1031	5.43	
MEDIUM		428	4	10.74	7.11	2305	22.85	9.16	5.86	1966	17.21	
			5	9.96	6.67	1710	13.41	8.29	5.39	1423	9.50	
			6	8.04	5.67	1151	6.62	4.26	3.50	609	2.14	
LOW		350	4	9.07	5.99	1947	16.92	7.73	4.94	1660	12.74	
			5	8.38	5.61	1440	9.85	6.92	4.50	1189	7.05	
			6	4.79	3.89	685	2.63	3.92	3.09	562	1.85	
SUPER LOW		290	4	7.71	5.09	1655	12.69	6.57	4.19	1410	9.49	
			5	7.09	4.75	1218	7.34	5.75	3.77	993	5.06	
			6	4.39	3.44	628	2.26	3.61	2.74	517	1.60	

I/S = LITER PER SECOND  
 TH = TOTAL CAPACITY (KW)  
 SH = SENSIBLE CAPACITY (KW)  
 WFR = WATER FLOW RATE (l/hr)  
 PD = WATER PRESSURE DROP (kPa)

# COOLING PERFORMANCE DATA



## PERFORMANCE DATA MODEL IZNH36BPVC-DW

### DISTRICT COOLING ( 5.5°C ENTERING WATER TEMP. )

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE								
				27CDB / 19CWB				24CDB / 17.8CWB				
				TH	SH	WFR	PD	TH	SH	WFR	PD	
50	TURBO	800	8	16.82	11.09	1806	59.21	13.97	8.93	1501	42.67	
			9	14.07	9.56	1343	34.99	10.70	7.16	1021	21.53	
			10	11.02	7.91	947	18.78	6.98	5.22	600	8.41	
	HIGH	682	8	14.92	9.81	1601	47.84	12.41	7.90	1332	34.55	
			9	12.43	8.42	1186	28.08	9.48	6.33	905	17.4	
			10	9.71	6.96	834	15.03	3.80	3.61	327	2.88	
	MEDIUM	564	8	12.89	8.45	1383	36.91	10.71	6.80	1150	26.68	
			9	10.78	7.28	1029	21.82	8.10	5.41	773	13.14	
			10	8.24	5.93	708	11.25	3.44	3.21	295	2.40	
	LOW	500	8	11.72	7.67	1258	31.25	9.74	6.18	1046	22.55	
			9	10.36	6.89	989	20.34	7.25	4.86	691	10.83	
			10	7.32	5.31	629	9.15	3.32	3.00	285	2.26	
	SUPER LOW	430	8	10.38	6.78	1114	25.25	8.61	5.46	925	18.14	
			9	9.16	6.09	874	16.37	6.22	4.20	593	8.27	
			10	4.28	3.75	368	3.55	3.16	2.75	272	2.09	
	75	TURBO	762	8	16.22	10.69	1741	55.52	13.49	8.60	1448	40.04
				9	13.56	9.20	1294	32.75	10.33	6.90	985	20.22
				10	10.61	7.61	912	17.58	6.88	5.16	591	8.20
HIGH		640	8	14.21	9.33	1525	43.88	11.82	7.52	1269	31.74	
			9	11.82	8.01	1128	25.73	9.01	6.01	860	15.90	
			10	9.21	6.60	791	13.69	3.56	3.45	306	2.56	
MEDIUM		530	8	12.27	8.04	1317	33.87	10.20	6.47	1095	24.49	
			9	10.64	7.12	1015	21.28	7.65	5.12	730	11.93	
			10	7.77	5.61	668	10.15	3.38	3.10	290	2.33	
LOW		455	8	10.86	7.10	1166	27.34	9.02	5.72	969	19.68	
			9	9.62	6.39	918	17.86	6.60	4.45	630	9.20	
			10	6.58	4.82	565	7.57	3.22	2.84	277	2.15	
SUPER LOW		388	8	9.54	6.23	1024	21.71	7.90	5.01	849	15.38	
			9	8.39	5.58	801	14.04	3.97	3.11	378	3.70	
			10	4.12	3.52	354	3.28	3.06	2.59	263	1.96	
100		TURBO	712	8	15.42	10.14	1655	50.74	12.82	8.17	1376	36.59
				9	12.86	8.72	1227	29.82	9.81	6.55	936	18.47
				10	10.05	7.21	864	15.98	3.79	3.69	326	2.87
	HIGH	590	8	13.35	8.75	1433	39.28	11.10	7.05	1192	28.44	
			9	11.12	7.52	1061	23.04	8.42	5.62	803	13.92	
			10	8.58	6.16	737	12.10	3.48	3.30	299	2.47	
	MEDIUM	480	8	11.34	7.42	1217	29.54	9.42	5.98	1012	21.26	
			9	10.06	6.69	960	19.34	6.96	4.68	665	10.10	
			10	7.01	5.10	602	8.46	3.28	2.93	281	2.21	
	LOW	405	8	9.88	6.45	1061	23.12	8.20	5.19	880	16.61	
			9	8.71	5.79	831	14.97	4.03	3.19	385	3.86	
			10	4.19	3.61	360	3.41	3.10	2.65	266	2.02	
	SUPER LOW	340	8	8.54	5.57	917	17.86	7.05	4.47	757	12.74	
			9	7.48	4.97	713	11.44	3.76	2.87	359	3.40	
			10	3.92	3.25	336	3.04	2.92	2.40	251	1.81	
	125	TURBO	635	8	14.13	9.28	1516	43.42	11.75	7.47	1261	31.38
				9	11.75	7.96	1121	25.45	8.95	5.97	854	15.73
				10	9.15	6.56	786	13.54	3.55	3.44	305	2.55
HIGH		530	8	12.27	8.04	1317	33.85	10.20	6.47	1095	24.50	
			9	10.64	7.12	1015	21.31	7.66	5.12	730	11.88	
			10	7.77	5.61	668	10.15	3.38	3.10	290	2.33	
MEDIUM		428	8	10.34	6.75	1110	25.08	8.58	5.44	921	18.01	
			9	9.13	6.06	871	16.26	6.18	4.18	590	8.19	
			10	4.28	3.74	367	3.54	3.16	2.74	271	2.08	
LOW		350	8	8.75	5.71	939	18.65	7.23	4.58	776	13.33	
			9	7.67	5.10	732	11.98	3.81	2.93	363	3.48	
			10	3.96	3.30	340	3.10	2.95	2.44	253	1.84	
SUPER LOW		290	8	7.45	4.85	799	14.03	6.11	3.87	656	9.89	
			9	6.46	4.30	616	8.83	3.52	2.61	335	3.03	
			10	3.67	2.94	315	2.71	2.75	2.18	236	1.62	

I/S = LITER PER SECOND  
 TH = TOTAL CAPACITY (KW)  
 SH = SENSIBLE CAPACITY (KW)  
 WFR = WATER FLOW RATE (l/hr)  
 PD = WATER PRESSURE DROP (kPa)

# COOLING PERFORMANCE DATA



## PERFORMANCE DATA MODEL IZNH48BPVC-CW

STANDARD COOLING (7°C ENTERING WATER TEMP.)

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE								
				27CDB / 19CWB				24CDB / 17.8CWB				
				TH	SH	WFR	PD	TH	SH	WFR	PD	
50	TURBO	1010	4	21.61	14.35	4637	42.27	18.27	11.84	3964	31.97	
			5	20.20	13.55	3469	25.14	16.94	10.99	2909	18.51	
			6	16.90	11.76	2419	13.36	13.14	9.04	1881	8.55	
	HIGH	960	4	20.77	13.78	4456	39.38	17.75	11.37	3810	29.79	
			5	19.42	13.01	3334	23.43	16.25	10.55	2792	17.19	
			6	16.22	11.28	2322	12.40	12.56	8.65	1798	7.88	
	MEDIUM	870	4	19.21	12.73	4123	34.29	16.42	10.51	3525	25.94	
			5	17.93	12.00	3078	20.50	15.00	9.73	2576	14.96	
			6	14.97	10.39	2142	10.77	11.43	7.90	1637	6.68	
	LOW	757	4	17.19	11.37	3688	28.11	14.69	9.39	3154	21.49	
			5	16.02	10.71	2750	16.81	13.38	8.67	2298	12.24	
			6	13.29	9.23	1903	8.70	7.17	5.72	1026	2.89	
	SUPER LOW	678	4	15.71	10.38	3373	23.99	13.43	8.57	2883	18.31	
			5	14.63	9.77	2512	14.34	12.20	7.90	2095	10.39	
			6	12.04	8.38	1724	7.32	6.84	5.35	980	2.66	
	75	TURBO	945	4	20.51	13.61	4402	38.53	17.53	11.23	3763	29.14
				5	19.17	12.84	3292	22.91	16.05	10.41	2757	16.91
				6	16.02	11.13	2293	12.16	12.37	8.52	1771	7.67
HIGH		900	4	19.74	13.08	4235	35.97	16.87	10.80	3621	27.21	
			5	18.43	12.34	3164	21.48	15.42	10.00	2648	15.65	
			6	15.39	10.69	2203	11.34	11.82	8.16	1692	7.08	
MEDIUM		825	4	18.42	12.20	3952	31.80	15.75	10.07	3380	24.07	
			5	17.17	11.49	2947	18.94	14.36	9.31	2466	13.84	
			6	14.31	9.94	2049	9.86	10.82	7.51	1549	6.04	
LOW		724	4	16.58	10.96	3557	26.36	14.17	9.05	3042	20.09	
			5	15.44	10.32	2652	15.69	12.89	8.35	2214	11.46	
			6	12.78	8.88	1829	8.07	7.04	5.59	1007	2.79	
SUPER LOW		650	4	15.18	10.02	3258	22.54	12.97	8.28	2785	17.17	
			5	14.13	9.43	2426	13.50	11.77	7.62	2021	9.68	
			6	11.58	8.06	1657	6.81	6.72	5.21	962	2.59	
100		TURBO	877	4	19.34	12.81	4149	34.67	16.53	10.58	3548	26.24
				5	18.05	12.08	3099	20.71	15.10	9.79	2593	15.16
				6	15.07	10.47	2157	10.88	11.53	7.96	1650	6.76
	HIGH	838	4	18.65	12.35	4002	32.52	15.94	10.20	3422	24.61	
			5	17.39	11.64	2986	19.28	14.54	9.43	2498	14.22	
			6	14.50	10.07	2076	10.04	11.00	7.62	1575	6.24	
	MEDIUM	770	4	17.42	11.53	3739	28.81	14.90	9.52	3197	21.99	
			5	16.24	10.86	2788	17.17	13.57	8.79	2330	12.53	
			6	13.50	9.37	1932	8.94	7.22	5.78	1033	2.93	
	LOW	686	4	15.87	10.48	3406	24.40	13.56	8.66	2911	18.58	
			5	14.77	9.87	2537	14.56	12.32	7.98	2116	10.60	
			6	12.17	8.47	1742	7.46	6.88	5.38	985	2.68	
	SUPER LOW	613	4	14.46	9.55	3104	20.82	12.36	7.88	2652	15.78	
			5	13.45	8.97	2309	12.33	11.19	7.24	1921	8.87	
			6	10.93	7.63	1565	6.14	6.55	5.02	937	2.46	
	125	TURBO	801	4	17.99	11.91	3860	30.49	15.38	9.83	3301	23.07
				5	16.77	11.22	2879	18.22	14.02	9.08	2407	13.29
				6	13.96	9.69	1998	9.48	10.48	7.29	1500	5.70
HIGH		768	4	17.39	11.50	3731	28.70	14.87	9.50	3191	21.92	
			5	16.20	10.83	2783	17.10	13.54	8.77	2325	12.48	
			6	13.46	9.31	1927	8.87	7.21	5.77	1032	2.92	
MEDIUM		702	4	16.17	10.69	3471	25.32	13.82	8.83	2966	19.12	
			5	15.06	10.06	2585	15.09	12.56	8.14	2158	10.92	
			6	12.43	8.64	1779	7.72	6.95	5.46	994	2.73	
LOW		630	4	14.79	9.77	3175	21.68	12.64	8.07	2714	16.45	
			5	13.76	9.19	2363	12.79	11.45	7.42	1967	9.22	
			6	11.23	7.83	1608	6.45	6.63	5.11	949	2.53	
SUPER LOW		570	4	13.61	8.98	2921	18.68	11.63	7.41	2496	14.24	
			5	12.64	8.43	2171	11.04	10.49	6.79	1802	7.91	
			6	7.71	6.02	1103	3.31	6.34	4.80	907	2.32	

I/S = LITER PER SECOND  
 TH = TOTAL CAPACITY (KW)  
 SH = SENSIBLE CAPACITY (KW)  
 WFR = WATER FLOW RATE (l/hr)  
 PD = WATER PRESSURE DROP (kPa)



# COOLING PERFORMANCE DATA



## PERFORMANCE DATA MODEL - IZNH-48BPVC-DW

### DISTRICT COOLING (5.5°C ENTERING WATER TEMP)

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE							
				27CDB / 19CWB				24CDB / 17.8CWB			
				TH	SH	WFR	PD	TH	SH	WFR	PD
50	TURBO	1010	8	21.00	13.69	2254	59.83	17.62	11.11	1891	43.89
			9	18.76	12.38	1790	39.71	15.05	9.65	1436	26.91
			10	14.67	10.08	1260	21.32	9.17	6.62	788	9.30
	HIGH	960	8	20.21	13.17	2169	55.89	16.95	10.68	1819	40.95
			9	18.04	11.90	1721	37.06	14.46	9.27	1380	25.09
			10	14.10	9.69	1211	20.07	5.91	5.14	507	4.29
	MEDIUM	870	8	18.73	12.19	2010	48.84	15.72	9.89	1687	35.90
			9	16.72	11.01	1595	32.41	13.40	8.59	1279	21.96
			10	13.02	8.95	1119	17.28	5.72	4.89	491	4.04
	LOW	757	8	16.80	10.91	1803	40.33	14.10	8.86	1513	29.60
			9	15.00	9.87	1431	26.96	11.96	7.66	1141	17.96
			10	11.56	7.96	994	13.98	5.45	4.49	468	3.71
	SUPER LOW	678	8	15.40	9.99	1653	34.62	12.91	8.11	1386	25.36
			9	13.74	9.03	1311	22.93	10.91	6.99	1041	15.25
			10	10.44	7.22	897	11.69	5.23	4.21	449	3.46
75	TURBO	945	8	19.96	13.01	2143	54.75	16.74	10.55	1797	40.10
			9	17.82	11.75	1700	36.27	14.29	9.76	1363	24.56
			10	13.92	9.57	1196	19.44	5.88	5.09	505	4.25
	HIGH	900	8	19.23	12.52	2064	51.18	16.13	10.16	1731	37.54
			9	17.17	11.31	1638	34.67	13.77	8.82	1314	23.02
			10	13.39	9.20	1150	18.15	5.78	4.95	497	4.12
	MEDIUM	825	8	17.97	11.69	1929	45.42	15.08	9.49	1619	33.37
			9	16.05	10.57	1531	30.13	12.84	8.22	1225	20.33
			10	12.46	8.57	1071	15.99	5.61	4.72	482	3.92
	LOW	724	8	16.22	10.53	1742	37.98	13.60	8.55	1460	27.88
			9	14.48	9.52	1382	25.16	11.54	7.39	1101	16.85
			10	11.11	7.66	955	13.06	5.36	4.37	460	3.61
	SUPER LOW	650	8	14.88	9.65	1598	32.61	12.48	7.83	1339	23.86
			9	13.28	8.73	1267	21.59	10.53	6.75	1005	14.32
			10	10.01	6.93	860	10.85	5.15	4.11	442	3.36
100	TURBO	877	8	18.85	12.27	2023	49.40	15.81	9.95	1697	36.27
			9	16.82	11.08	1605	32.76	13.49	8.64	1287	22.21
			10	13.11	9.01	1126	17.47	5.73	4.88	492	4.06
	HIGH	838	8	18.20	11.83	1953	46.42	15.26	9.60	1638	34.05
			9	16.25	10.70	1550	30.80	13.00	8.33	1240	20.79
			10	12.63	8.63	1085	16.36	5.64	4.76	485	3.96
	MEDIUM	770	8	17.03	11.07	1828	41.32	14.28	8.98	1533	30.29
			9	15.21	10.01	1451	27.41	12.13	7.77	1157	18.40
			10	11.74	8.08	1009	14.37	5.48	4.53	471	3.75
	LOW	686	8	15.54	10.09	1669	35.19	13.03	8.18	1399	25.78
			9	13.87	9.12	1323	23.30	11.02	7.06	1052	15.54
			10	10.56	7.29	907	11.92	5.25	4.24	451	3.49
	SUPER LOW	613	8	14.20	9.20	1524	29.98	11.90	7.47	1277	21.97
			9	12.66	8.32	1208	19.84	10.01	6.42	955	13.09
			10	9.42	6.55	809	9.75	5.03	3.97	432	3.23
125	TURBO	801	8	17.56	11.42	1885	43.63	14.74	9.27	1582	32.02
			9	15.68	10.32	1496	28.93	12.52	8.02	1195	19.46
			10	12.15	8.36	1044	15.29	5.56	4.64	477	3.84
	HIGH	768	8	17.00	11.04	1824	42.11	14.26	8.96	1530	30.18
			9	15.18	9.98	1448	27.32	12.10	7.75	1155	18.34
			10	11.71	8.06	1006	14.30	5.48	4.53	470	3.75
	MEDIUM	702	8	15.83	10.28	1700	36.37	13.28	8.34	1425	26.63
			9	14.13	9.29	1348	24.10	11.24	7.20	1073	16.10
			10	10.79	7.45	927	12.40	5.30	4.30	455	3.54
	LOW	630	8	14.51	9.41	1558	31.18	12.17	7.64	1306	22.85
			9	12.94	8.50	1235	20.64	10.25	6.57	978	14.46
			10	9.69	6.73	832	10.25	5.09	4.03	437	3.29
	SUPER LOW	570	8	13.38	8.67	1436	26.99	11.20	7.03	1202	19.73
			9	11.92	7.83	1137	17.84	9.38	6.02	895	11.68
			10	6.53	5.16	561	5.11	4.89	3.80	420	3.08

I/S = LITER PER SECOND  
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 SH = SENSIBLE CAPACITY (KW)  
 WFR = WATER FLOW RATE (l/hr)  
 PD = WATER PRESSURE DROP (kPa)

# COOLING PERFORMANCE DATA



## PERFORMANCE DATA MODEL - IZNH-60BPVC-CW

### STANDARD COOLING (7°C ENTERING WATER TEMP)

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE								
				27CDB / 19CWB				24CDB / 17.8CWB				
				TH	SH	WFR	PD	TH	SH	WFR	PD	
50	TURBO	1132	4	27.66	18.38	5935	44.40	23.62	15.16	5069	33.71	
			5	25.81	17.33	4432	26.58	21.63	14.07	3716	19.38	
			6	21.40	14.98	3063	13.69	16.45	11.44	2355	8.66	
	HIGH	984	4	24.73	16.40	5306	30.11	21.12	13.53	4534	27.76	
			5	23.09	15.47	3966	21.78	19.30	12.53	3315	15.80	
			6	19.06	13.32	2728	11.25	14.38	10.06	2058	6.72	
	MEDIUM	774	4	20.32	13.43	4360	25.87	17.36	11.09	3725	19.53	
			5	18.88	12.63	3242	15.19	15.71	10.20	2697	11.06	
			6	15.40	10.79	2205	7.71	8.25	6.69	1181	2.53	
	LOW	660	4	17.78	11.73	3815	20.37	15.18	9.69	3258	15.36	
			5	16.49	11.02	2833	12.06	13.67	8.87	2347	8.63	
			6	13.13	9.26	1879	5.79	7.72	6.05	1105	2.24	
	SUPER LOW	580	4	15.92	10.49	3414	16.70	13.59	8.66	2916	12.63	
			5	14.73	9.83	2530	9.85	12.13	7.88	2083	6.94	
			6	8.87	7.00	1270	2.89	7.29	5.58	1044	2.01	
	75	TURBO	1056	4	26.17	17.37	5615	40.37	22.35	14.33	4797	30.70
				5	24.43	16.39	4196	24.10	20.42	13.27	3507	17.48
				6	20.21	14.14	2893	12.43	15.43	10.75	2208	7.72
HIGH		930	4	23.62	15.65	5071	33.73	20.18	12.92	4331	25.57	
			5	22.03	14.75	3783	20.01	18.40	11.95	3161	14.57	
			6	18.16	12.70	2600	10.31	13.53	9.51	1937	6.04	
MEDIUM		744	4	19.66	12.99	4219	24.39	16.79	10.73	3604	18.41	
			5	18.26	12.21	3136	14.35	15.19	9.86	2609	10.39	
			6	14.84	10.40	2124	7.13	8.12	6.52	1162	2.45	
LOW		636	4	17.23	11.37	3698	19.27	14.71	9.38	3156	14.59	
			5	15.97	10.67	2743	11.36	13.21	8.58	2269	8.13	
			6	9.27	7.44	1326	3.10	7.60	5.92	1088	2.18	
SUPER LOW		561	4	15.47	10.19	3318	15.87	13.20	8.41	2833	12.03	
			5	14.30	9.55	2456	9.34	11.75	7.63	2017	6.53	
			6	8.73	6.85	1250	2.81	7.19	5.47	1029	1.96	
100		TURBO	955	4	24.14	16.00	5179	35.16	20.62	13.21	4425	26.57
				5	22.52	15.09	3868	20.83	18.82	12.22	3232	15.23
				6	18.58	12.99	2659	10.68	13.92	9.77	1993	6.38
	HIGH	852	4	21.99	14.56	4721	29.83	18.79	12.02	4033	22.50	
			5	20.46	13.70	3515	17.55	17.08	11.08	2932	12.70	
			6	16.82	11.76	2407	8.97	8.57	7.09	1227	2.71	
	MEDIUM	710	4	18.90	12.49	4057	22.74	16.15	10.31	2465	17.15	
			5	17.55	11.73	3014	13.25	14.58	9.46	2504	9.70	
			6	14.17	9.95	2028	6.57	7.96	6.34	1140	2.38	
	LOW	600	4	16.39	10.81	3515	17.59	13.99	8.92	3003	13.24	
			5	15.18	10.13	2607	10.38	12.52	8.13	2151	7.40	
			6	9.02	7.16	1291	2.97	7.41	5.70	1060	2.07	
	SUPER LOW	528	4	14.67	9.67	3147	14.56	12.51	7.97	2685	11.01	
			5	13.54	9.04	2325	8.47	11.07	7.20	1901	5.90	
			6	8.48	6.58	1214	2.66	6.99	5.26	1000	1.85	
	125	TURBO	834	4	21.61	14.30	4638	28.91	18.46	11.81	3962	21.81
				5	20.10	13.45	3451	16.98	16.77	10.88	2879	12.38
				6	16.49	11.54	2361	8.69	8.50	7.00	1216	2.66
HIGH		753	4	19.86	13.12	4261	24.83	16.96	10.84	3641	18.75	
			5	18.45	12.34	3168	9.48	15.35	9.96	2637	10.61	
			6	15.01	10.52	2148	7.34	8.16	6.57	1168	2.48	
MEDIUM		636	4	17.23	11.37	3698	19.27	14.71	9.38	3156	14.58	
			5	15.97	10.67	2743	11.36	13.21	8.58	2269	8.09	
			6	9.27	7.44	1326	3.11	7.60	5.92	1088	2.17	
LOW		543	4	15.03	9.91	3225	15.20	12.82	8.17	2753	11.46	
			5	13.89	9.27	2385	8.88	11.38	7.40	1954	6.21	
			6	8.60	6.71	1231	2.72	7.08	5.35	1013	1.89	
SUPER LOW		480	4	13.49	8.89	2894	12.48	11.49	7.32	2466	9.37	
			5	12.40	8.28	2130	7.26	7.54	5.39	1294	2.99	
			6	8.09	6.18	1158	2.45	6.68	4.94	956	1.72	

I/S = LITER PER SECOND  
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 WFR = WATER FLOW RATE (l/hr)  
 PD = WATER PRESSURE DROP (kPa)

# COOLING PERFORMANCE DATA



## PERFORMANCE DATA MODEL - IZNH-60BPVC-DW

### DISTRICT COOLING (5.5°C ENTERING WATER TEMP)

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE							
				27CDB / 19CWB				24CDB / 17.8CWB			
				TH	SH	WFR	PD	TH	SH	WFR	PD
50	TURBO	1132	8	27.30	17.78	2930	74.39	22.96	14.46	2464	54.85
			9	24.48	16.14	2336	49.76	19.73	12.64	1883	34.03
			10	19.40	13.28	1667	37.34	12.84	9.03	1103	13.19
	HIGH	984	8	24.49	15.92	2629	61.47	20.61	12.95	2212	45.37
			9	21.96	14.45	2096	41.09	17.69	11.31	1688	28.06
			10	17.41	11.90	1496	22.59	11.09	7.90	952	10.17
	MEDIUM	774	8	20.23	13.11	2172	43.88	17.04	10.68	1829	32.40
			9	18.16	11.92	1733	29.37	14.57	9.30	1390	19.91
			10	14.26	9.74	1225	15.89	6.38	5.34	548	3.84
	LOW	660	8	17.77	11.49	1907	34.88	14.95	9.36	1605	25.73
			9	15.95	10.45	1522	23.35	12.73	8.13	1215	15.69
			10	12.31	8.45	1058	12.25	6.02	4.87	518	3.47
SUPER LOW	580	8	15.96	10.31	1713	28.87	13.42	8.40	1441	21.28	
		9	14.32	9.37	1366	19.31	11.36	7.26	1084	12.83	
		10	10.74	7.43	923	9.62	5.73	4.51	493	3.18	
75	TURBO	1056	8	25.88	16.84	2778	67.74	21.76	13.69	2336	49.94
			9	23.19	15.28	2213	45.27	18.72	11.98	1786	30.97
			10	18.40	12.58	1581	24.90	12.00	8.48	1031	11.70
	HIGH	930	8	23.43	15.22	2515	56.90	19.72	12.39	2117	41.90
			9	21.01	13.82	2005	37.96	16.90	10.81	1613	25.87
			10	16.63	11.36	1429	20.82	6.79	5.95	583	4.28
	MEDIUM	744	8	19.59	12.69	2103	41.43	16.50	10.34	1771	30.62
			9	17.60	11.54	1679	27.82	14.10	9.00	1345	18.80
			10	13.77	9.41	1183	14.93	6.29	5.22	541	3.75
	LOW	636	8	17.23	11.14	1849	33.04	14.50	9.08	1557	24.38
			9	15.47	10.13	1476	22.03	12.33	7.88	1177	14.85
			10	11.86	8.15	1019	11.46	5.94	4.76	510	3.39
SUPER LOW	561	8	15.52	10.02	1665	27.47	13.05	8.16	1401	20.24	
		9	13.92	9.11	1328	18.36	11.02	7.05	1051	12.15	
		10	7.54	5.97	648	5.16	5.66	4.42	486	3.11	
100	TURBO	955	8	23.92	15.54	2568	59.01	20.13	12.65	2161	43.53
			9	21.45	14.11	2047	38.72	17.26	11.04	1647	26.86
			10	16.99	11.61	1460	21.63	10.67	7.65	917	9.51
	HIGH	852	8	21.85	14.18	2346	50.35	18.40	11.55	1975	37.11
			9	19.62	12.88	1872	33.69	15.75	10.07	1503	22.84
			10	15.47	10.57	1329	18.33	6.60	5.65	567	4.07
	MEDIUM	710	8	18.86	12.21	2025	38.78	15.88	9.95	1705	28.64
			9	16.94	11.10	1616	25.95	13.55	8.65	1293	17.53
			10	13.20	9.03	1134	13.85	6.19	5.08	532	3.64
	LOW	600	8	16.42	10.61	1762	30.34	13.81	8.65	1483	22.39
			9	14.73	9.65	1406	20.30	11.72	7.49	1118	13.54
			10	11.16	7.70	959	10.33	5.81	4.60	499	3.25
SUPER LOW	528	8	14.74	9.52	1582	25.09	12.39	7.75	1330	18.48	
		9	13.21	8.65	1260	16.74	10.41	6.67	993	11.84	
		10	7.34	5.74	631	4.92	5.52	4.26	474	2.97	
125	TURBO	834	8	21.48	13.93	2306	48.81	18.08	11.35	1941	35.96
			9	19.28	12.66	1840	32.65	15.48	9.89	1477	22.15
			10	15.19	10.38	1305	17.76	6.55	5.58	563	4.02
	HIGH	753	8	19.79	12.82	2124	42.19	16.66	10.44	1788	31.13
			9	17.76	11.65	1695	28.26	14.24	9.10	1359	19.14
			10	13.92	9.52	1196	15.22	6.32	5.26	543	3.78
	MEDIUM	636	8	17.23	11.14	1849	33.04	14.50	9.08	1557	24.38
			9	15.47	10.13	1476	22.12	12.33	7.88	1177	14.85
			10	11.86	8.15	1019	11.46	5.94	4.76	510	3.39
	LOW	543	8	15.09	9.75	1620	26.15	12.69	7.94	1362	19.27
			9	13.53	8.86	1291	17.47	10.69	6.84	1020	11.51
			10	7.43	5.84	639	5.04	5.58	4.33	480	3.04
SUPER LOW	480	8	13.59	8.77	1459	21.73	11.40	7.13	1224	15.95	
		9	12.15	7.95	1159	14.44	5.37	4.04	462	2.84	
		10	7.03	5.41	604	4.56	5.30	4.02	456	2.77	

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# COOLING PERFORMANCE DATA



## PERFORMANCE DATA MODEL - IZNH-75BPVC-CW

### DISTRICT COOLING (7°C ENTERING WATER TEMP)

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE								
				27CDB / 19CWB				24CDB / 17.8CWB				
				TH	SH	WFR	PD	TH	SH	WFR	PD	
50	TURBO	1342	4	30.88	20.65	6628	44.76	26.70	17.19	5730	34.54	
			5	28.28	19.20	4856	25.70	23.64	15.54	4059	18.60	
			6	24.82	17.33	3552	14.74	19.96	13.63	2857	10.00	
	HIGH	1130	4	27.28	18.13	5854	35.88	23.38	15.01	5017	27.26	
			5	24.76	16.75	4252	20.32	20.74	13.58	3561	14.81	
			6	21.85	15.15	3128	11.72	17.52	11.89	2508	7.98	
	MEDIUM	928	4	23.32	15.45	5004	27.14	20.03	12.81	4299	20.73	
			5	21.40	14.38	3675	15.72	18.22	11.83	3129	11.76	
			6	18.91	13.01	2707	9.12	14.97	10.12	2143	6.04	
	LOW	802	4	20.73	13.69	4448	22.06	17.82	11.37	3824	16.91	
			5	19.36	12.93	3325	13.15	16.54	10.67	2841	9.98	
			6	16.89	11.57	2418	7.46	13.22	8.93	1893	4.83	
	SUPER LOW	697	4	18.46	12.17	3959	17.92	15.88	10.11	3408	13.79	
			5	17.44	11.60	2996	10.88	14.71	9.47	2526	8.09	
			6	15.03	10.27	2151	6.08	11.63	7.87	1665	3.84	
	75	TURBO	1252	4	29.49	19.65	6329	41.23	25.29	16.27	5428	31.37
				5	26.84	18.19	4608	23.31	22.40	14.71	3846	17.00
				6	23.56	16.40	3372	13.46	18.95	12.90	2712	9.15
HIGH		1050	4	25.72	17.08	5520	32.32	22.08	14.15	4738	24.60	
			5	23.35	15.77	4010	18.26	19.73	12.88	3388	13.60	
			6	20.73	14.32	2967	10.68	16.54	11.20	2367	7.20	
MEDIUM		860	4	21.93	14.51	4706	24.34	18.85	12.04	4047	18.61	
			5	20.32	13.61	3490	14.35	17.32	11.20	2974	10.75	
			6	17.84	12.24	2554	8.23	14.04	9.48	2010	5.37	
LOW		736	4	19.31	12.75	4143	19.36	16.61	10.59	3565	14.93	
			5	18.25	12.14	3135	11.81	15.41	9.93	2647	8.79	
			6	15.75	10.77	2254	6.59	12.24	8.27	1752	4.21	
SUPER LOW		630	4	16.97	11.17	3640	15.47	14.60	9.29	3134	11.82	
			5	16.00	10.63	2747	9.39	13.48	8.68	2316	6.94	
			6	13.76	9.40	1970	5.18	10.52	7.14	1506	3.21	
100		TURBO	1140	4	27.47	18.26	5896	36.35	23.53	15.11	5050	27.58
				5	24.94	16.87	4282	20.55	20.85	13.67	3581	14.99
				6	21.99	15.25	3148	11.92	17.64	11.98	2525	8.06
	HIGH	949	4	23.74	15.73	5094	28.01	20.39	13.04	4375	21.36	
			5	21.73	14.62	3732	16.14	18.49	12.01	3175	12.13	
			6	19.23	13.24	2753	9.40	15.24	10.31	2182	6.23	
	MEDIUM	772	4	20.09	13.27	4311	20.82	17.27	11.01	3707	16.00	
			5	18.85	12.57	3236	12.51	16.02	10.33	2751	5.49	
			6	16.38	11.21	2345	7.08	12.78	8.63	1830	4.54	
	LOW	660	4	17.64	11.62	3785	16.61	15.18	9.66	3258	12.72	
			5	16.65	11.06	2859	10.07	14.04	9.03	2411	7.45	
			6	14.33	9.80	2052	5.55	11.03	7.48	1579	3.49	
	SUPER LOW	547	4	15.05	9.89	3228	12.59	12.95	8.23	2779	9.61	
			5	14.17	9.40	2433	7.56	11.93	7.67	2050	5.56	
			6	12.11	8.28	1733	4.12	7.08	5.34	1013	2.93	
	125	TURBO	1020	4	25.14	16.68	5395	31.03	21.58	13.83	4632	23.69
				5	22.86	15.43	3926	17.60	19.37	12.63	3326	13.15
				6	20.30	14.01	2905	10.32	16.16	10.94	2313	6.90
HIGH		832	4	21.35	14.12	4584	23.25	18.36	11.72	3940	17.79	
			5	19.86	13.29	3411	13.74	17.05	11.00	2928	10.48	
			6	17.39	11.92	2489	7.88	13.65	9.22	1954	5.10	
MEDIUM		671	4	17.89	11.79	3838	17.03	15.39	9.80	3304	13.05	
			5	16.89	11.22	2900	10.31	14.24	9.16	2445	7.66	
			6	14.54	9.94	2082	5.73	11.21	7.59	1605	3.60	
LOW		570	4	15.59	10.25	3344	13.32	13.42	8.52	2878	10.21	
			5	14.68	9.74	2520	8.06	12.37	7.95	2124	5.93	
			6	12.58	8.59	1800	4.41	7.22	5.48	1033	1.64	
SUPER LOW		461	4	12.98	8.52	2784	9.64	11.17	7.08	2396	7.42	
			5	12.20	8.08	2094	5.80	10.24	6.58	1759	4.25	
			6	10.20	7.01	1460	3.04	6.52	4.78	933	1.37	

I/S = LITER PER SECOND  
 TH = TOTAL CAPACITY (KW)  
 SH = SENSIBLE CAPACITY (KW)  
 WFR = WATER FLOW RATE (l/hr)  
 PD = WATER PRESSURE DROP (kPa)

# COOLING PERFORMANCE DATA



## PERFORMANCE DATA MODEL - IZNH-75BPVC-DW

### DISTRICT COOLING (5.5°C ENTERING WATER TEMP)

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE							
				27CDB / 19CWB				24CDB / 17.8CWB			
				TH	SH	WFR	PD	TH	SH	WFR	PD
50	TURBO	1342	8	30.31	19.90	3254	59.72	25.47	16.16	2734	43.92
			9	26.11	17.53	2491	37.19	20.85	13.62	1990	24.98
			10	21.28	14.81	1828	21.44	14.98	10.49	1287	11.55
	HIGH	1130	8	26.59	17.39	2854	47.37	22.42	14.18	2407	35.09
			9	22.99	15.37	2194	29.72	18.37	11.95	1753	19.99
			10	19.00	13.09	1632	17.56	13.12	9.17	1127	9.15
	MEDIUM	928	8	22.88	14.90	2455	36.35	19.31	12.17	2073	26.95
			9	19.97	13.26	1905	23.15	15.80	10.25	15.07	15.30
			10	16.56	11.32	1423	13.83	11.08	7.77	952	6.78
	LOW	802	8	20.41	13.26	2190	29.71	17.24	10.84	1851	22.07
			9	18.46	12.14	1761	20.14	14.68	9.42	1400	13.45
			10	14.77	10.08	1269	11.27	9.55	6.77	821	5.22
SUPER LOW	697	8	18.24	11.83	1958	24.36	15.42	9.67	1655	18.11	
		9	16.50	10.83	1575	16.54	13.38	8.53	1277	11.43	
		10	13.15	8.97	1130	9.19	6.00	4.97	515	2.30	
75	TURBO	1252	8	28.77	18.86	3088	54.42	24.18	15.32	2595	40.07
			9	24.84	16.64	2370	34.05	19.84	12.94	1893	22.89
			10	20.30	14.08	1744	19.75	14.21	9.94	1221	10.53
	HIGH	1050	8	25.15	16.43	2700	42.97	21.22	13.40	2278	31.85
			9	21.72	14.50	2072	26.85	17.35	11.28	1656	18.08
			10	18.08	12.41	1553	16.09	12.35	8.63	1061	8.21
	MEDIUM	860	8	21.56	14.03	2314	32.74	18.21	11.46	1955	24.29
			9	19.20	12.68	1832	21.61	15.02	9.71	1434	14.02
			10	15.60	10.65	1340	12.41	10.30	7.25	885	5.96
	LOW	736	8	19.06	12.37	2046	26.33	16.11	10.11	1729	19.56
			9	17.26	11.33	1647	17.91	14.01	8.94	1337	12.40
			10	13.77	9.39	1183	9.95	6.12	5.13	526	2.38
SUPER LOW	630	8	16.81	10.88	1804	21.08	14.21	8.90	1525	15.67	
		9	15.19	9.96	1450	14.29	12.29	7.83	1173	9.84	
		10	12.07	8.23	1037	9.23	5.78	4.68	496	2.15	
100	TURBO	1140	8	26.77	17.51	2873	47.94	22.56	14.27	2422	35.36
			9	23.15	15.48	2209	30.06	18.49	12.03	1764	20.20
			10	19.11	13.18	1642	17.71	13.21	9.23	1135	9.26
	HIGH	949	8	23.27	15.17	2498	37.48	19.65	12.38	2109	27.78
			9	20.26	13.48	1934	23.76	16.02	10.40	1528	15.68
			10	16.83	11.51	1446	14.19	11.31	7.92	972	7.03
	MEDIUM	772	8	19.80	12.86	2125	28.15	16.73	10.51	1796	20.92
			9	17.95	11.79	1713	19.19	14.38	9.20	1373	12.99
			10	14.32	9.77	1230	10.67	9.12	6.50	784	4.81
	LOW	660	8	17.45	11.31	1873	22.52	14.76	9.25	1584	16.75
			9	15.79	10.35	1507	15.30	12.78	8.15	1220	10.55
			10	12.56	8.56	1079	8.46	5.88	4.81	505	2.22
SUPER LOW	547	8	14.96	9.67	1605	17.15	12.64	7.91	1357	12.76	
		9	13.52	8.85	1290	11.64	10.89	6.94	1039	7.93	
		10	10.63	7.26	913	6.32	5.47	4.30	470	1.96	
125	TURBO	1020	8	24.60	16.06	2641	41.33	20.76	13.10	2228	30.64
			9	21.23	14.17	2026	25.79	16.96	11.02	1618	17.34
			10	17.71	12.15	1522	15.53	12.05	8.43	1035	7.86
	HIGH	832	8	21.01	13.66	2255	31.29	17.75	11.16	1905	23.21
			9	18.85	12.42	1798	20.90	14.76	9.52	1409	13.59
			10	15.19	10.37	1305	11.84	9.95	7.03	855	5.61
	MEDIUM	671	8	17.69	11.46	1899	23.08	14.96	9.38	1605	17.15
			9	16.01	10.50	1528	15.68	12.96	8.26	1237	10.80
			10	12.74	8.69	1095	8.69	5.92	4.86	508	2.24
	LOW	570	8	15.48	10.01	1661	18.23	13.09	8.19	1405	13.56
			9	13.99	9.16	1335	12.36	11.30	7.20	1078	8.48
			10	11.04	7.53	948	6.74	5.56	4.41	478	2.01
SUPER LOW	461	8	12.95	8.35	1390	13.31	10.94	6.83	1174	9.88	
		9	11.69	7.64	1116	9.01	9.33	5.95	890	6.04	
		10	6.75	5.19	580	2.83	5.10	3.87	438	1.72	

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 WFR = WATER FLOW RATE (l/hr)  
 PD = WATER PRESSURE DROP (kPa)

# COOLING PERFORMANCE DATA



## PERFORMANCE DATA MODEL - IZNH-75BPVC-CW STANDARD COOLING (7°C ENTERING WATER TEMP)

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE								
				27CDB / 19CWB				24CDB / 17.8CWB				
				TH	SH	WFR	PD	TH	SH	WFR	PD	
50	TURBO	1648	4	37.01	24.87	7943	46.63	32.25	20.83	6920	36.56	
			5	34.15	23.28	5865	27.17	28.58	18.86	4908	19.77	
			6	29.86	20.99	4274	15.45	23.94	16.47	3426	10.47	
	HIGH	1355	4	32.54	21.67	6983	37.06	27.83	17.90	5973	28.15	
			5	29.47	19.98	5061	20.83	24.56	16.14	4218	15.09	
			6	25.83	18.01	3697	11.99	20.67	14.12	2959	8.03	
	MEDIUM	1120	4	27.97	18.56	6003	28.41	24.00	15.38	5150	21.61	
			5	25.36	17.13	4356	15.94	21.42	13.99	3679	11.93	
			6	22.38	15.50	3204	9.30	17.78	12.09	2545	6.19	
	LOW	963	4	24.78	16.40	5318	22.87	21.28	13.60	4567	17.48	
			5	22.84	15.33	3923	13.28	19.41	12.58	3333	9.98	
			6	19.93	13.73	2853	7.53	15.65	10.63	2240	4.93	
	SUPER LOW	847	4	22.32	14.73	4789	19.09	19.18	12.23	4116	14.48	
			5	20.89	13.94	3587	11.39	17.75	11.45	3048	8.45	
			6	17.98	12.35	2574	6.29	13.94	9.48	1996	4.00	
	75	TURBO	1529	4	35.26	23.61	7567	42.73	30.57	19.71	6561	33.30
				5	32.30	21.97	5547	24.60	26.99	17.78	4635	17.88
				6	28.28	19.81	4048	13.99	22.65	15.53	3242	9.49
HIGH		1274	4	31.00	20.62	6654	34.14	26.54	17.05	5695	25.86	
			5	28.08	19.02	4822	19.24	23.40	15.36	4018	13.87	
			6	24.64	17.14	3527	11.00	19.71	13.44	2821	7.41	
MEDIUM		1038	4	26.32	17.45	5649	25.48	22.60	14.46	4849	19.48	
			5	24.04	16.19	4129	14.56	20.40	13.27	3503	10.91	
			6	21.13	14.59	3025	8.31	16.69	11.34	2389	5.54	
LOW		880	4	23.03	15.22	4943	20.08	19.79	12.63	4247	15.38	
			5	21.46	14.35	3686	11.99	18.34	11.83	3149	9.04	
			6	18.55	12.75	2656	6.64	14.45	9.82	2068	4.26	
SUPER LOW		765	4	20.51	13.53	4399	16.33	17.63	11.23	3784	12.56	
			5	19.36	12.88	3325	9.94	16.29	10.50	2799	7.32	
			6	16.52	11.33	2364	5.43	12.62	8.62	1807	3.35	
100		TURBO	1390	4	33.10	22.07	7104	38.14	28.38	18.26	6091	29.16
				5	30.06	20.39	5162	21.64	25.06	16.48	4303	15.66
				6	26.34	18.38	3770	12.42	21.08	14.41	3017	8.27
	HIGH	1168	4	28.91	19.21	6206	30.14	24.80	15.91	5323	22.92	
			5	26.20	17.71	4498	16.95	22.03	14.41	3783	12.52	
			6	23.09	16.01	3305	9.82	18.39	12.52	2633	6.55	
	MEDIUM	948	4	24.47	16.19	5251	22.36	21.02	13.43	4512	17.07	
			5	22.60	15.15	3881	13.06	19.21	12.44	3299	9.82	
			6	19.69	13.56	2818	7.37	15.44	10.49	2210	4.82	
	LOW	784	4	20.94	13.81	4490	16.94	18.00	11.47	3862	12.96	
			5	19.74	13.14	3391	10.29	16.64	10.73	2859	7.62	
			6	16.86	11.57	2414	5.63	12.94	8.82	1852	3.51	
	SUPER LOW	673	4	18.42	12.13	3951	13.50	15.83	10.07	3396	10.39	
			5	17.33	11.52	2976	8.12	14.57	9.38	2502	6.02	
			6	14.69	10.08	2102	4.39	8.13	6.32	1164	1.54	
	125	TURBO	1248	4	30.49	20.28	6545	33.15	26.12	16.77	5605	25.13
				5	27.62	18.70	4743	18.60	23.04	15.12	3957	13.5
				6	24.25	16.86	3472	10.74	19.39	13.21	2775	7.19
HIGH		1046	4	26.49	17.56	5684	25.76	22.74	14.55	4879	19.61	
			5	24.17	16.28	4151	14.63	20.50	13.34	3521	11.00	
			6	21.25	14.68	3042	8.41	16.80	11.42	2405	5.59	
MEDIUM		844	4	22.25	14.70	4772	18.99	19.12	12.20	4104	14.39	
			5	20.95	13.96	3598	11.43	17.70	11.42	3039	8.40	
			6	17.93	12.32	2567	6.26	13.90	9.45	1989	3.97	
LOW		675	4	18.47	12.16	3961	13.59	15.87	10.10	3405	10.38	
			5	17.37	11.55	2983	8.15	14.61	9.41	2509	6.75	
			6	14.73	10.11	2108	4.41	8.14	6.33	1165	1.54	
SUPER LOW		576	4	16.12	10.60	3459	10.73	13.86	8.80	2974	8.14	
			5	15.14	10.05	2599	6.43	12.70	8.17	2181	4.71	
			6	12.65	8.71	1811	3.35	7.58	5.72	1085	1.35	

I/S = LITER PER SECOND  
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 WFR = WATER FLOW RATE (l/hr)  
 PD = WATER PRESSURE DROP (kPa)

# COOLING PERFORMANCE DATA



## PERFORMANCE DATA MODEL - IZNH-85BPVC-DW DISTRICT COOLING (5.5°C ENTERING WATER TEMP)

EXTERNAL STATIC PRESS. Pa	FAN SPEED	AIR FLOW I/S	WATER TEMP. RISE °K	ENTERING AIR TEMPERATURE							
				27CDB / 19CWB				24CDB / 17.8CWB			
				TH	SH	WFR	PD	TH	SH	WFR	PD
50	TURBO	1648	8	36.61	24.11	3929	71.62	31.06	19.73	3335	53.63
			9	31.86	21.41	3040	45.33	25.51	16.66	2434	30.68
			10	26.01	18.10	2234	26.29	18.54	12.92	1593	14.47
	HIGH	1355	8	31.89	20.87	3423	56.18	26.89	17.01	2887	41.56
			9	27.65	18.47	2638	35.37	22.14	14.40	2113	23.90
			10	22.99	15.80	1975	21.15	16.07	11.14	1381	11.24
	MEDIUM	1120	8	27.60	17.99	2963	43.50	23.32	14.69	2503	32.35
			9	24.08	16.00	2298	27.73	19.18	12.43	1830	18.53
			10	20.13	13.73	1729	16.72	13.84	9.57	1189	8.64
	LOW	963	8	24.55	15.96	2635	35.40	20.77	13.05	2229	26.34
			9	22.13	14.56	2111	23.86	17.78	11.39	1696	16.22
			10	17.92	12.20	1540	13.64	12.13	8.41	1042	6.84
SUPER LOW	847	8	22.19	14.39	2381	29.61	18.78	11.77	2015	22.03	
		9	20.11	13.19	1919	20.18	16.36	10.42	1561	14.01	
		10	16.18	10.99	1390	11.38	10.67	7.46	917	5.44	
75	TURBO	1529	8	34.96	22.93	3752	66.06	29.40	18.64	3156	48.68
			9	30.20	20.25	2882	41.34	24.20	15.77	2309	27.96
			10	24.79	17.17	2130	24.17	17.58	12.21	1510	13.16
	HIGH	1274	8	30.44	19.89	3267	51.71	25.69	16.23	2758	38.37
			9	26.37	17.60	2516	32.54	21.13	13.72	2016	21.99
			10	22.08	15.13	1897	19.70	15.33	10.61	1317	10.34
	MEDIUM	1038	8	26.03	16.94	2794	39.25	22.01	13.84	2362	29.21
			9	23.07	15.26	2202	25.72	18.29	11.81	1745	17.05
			10	18.99	12.94	1632	15.09	12.97	8.98	1114	7.70
	LOW	880	8	22.87	14.84	2454	31.23	19.35	12.14	2077	23.27
			9	20.75	13.61	1980	21.30	16.88	10.75	1611	14.80
			10	16.69	11.34	1434	12.01	11.11	7.75	955	5.87
SUPER LOW	765	8	20.45	13.24	2195	25.66	17.31	10.84	1858	19.09	
		9	18.53	12.13	1768	17.45	15.04	9.57	1435	12.07	
		10	14.89	10.11	1279	9.83	6.61	5.51	568	2.63	
100	TURBO	1390	8	32.52	21.29	3491	58.16	27.40	17.34	2942	42.97
			9	28.18	18.84	2689	36.60	22.57	14.68	2154	24.74
			10	23.37	16.09	2008	21.76	16.39	11.36	1408	11.64
	HIGH	1168	8	28.50	18.59	3059	45.95	24.07	15.18	2584	34.22
			9	24.72	16.46	2359	29.05	19.75	12.81	1885	19.54
			10	20.78	14.19	1785	17.68	14.32	9.90	1230	9.17
	MEDIUM	948	8	24.25	15.76	2603	34.66	20.51	12.89	2202	25.80
			9	21.92	14.41	2091	23.47	17.62	11.27	1682	15.98
			10	17.70	12.04	1521	13.33	11.95	8.30	1027	6.65
	LOW	784	8	20.85	13.51	2238	26.53	17.66	11.06	1895	19.78
			9	18.90	12.38	1804	18.07	15.35	9.77	1465	12.52
			10	15.19	10.32	1305	10.18	6.67	5.59	573	2.38
SUPER LOW	673	8	18.42	11.90	1977	21.30	15.60	9.75	1674	15.89	
		9	16.69	10.91	1593	14.51	13.52	8.60	1290	10.01	
		10	13.35	9.06	1147	8.11	6.31	5.10	542	2.16	
125	TURBO	1248	8	29.97	19.58	3217	50.35	25.30	15.97	2716	37.34
			9	25.96	17.32	2477	31.68	20.79	13.50	1984	21.38
			10	21.85	14.94	1877	19.32	15.09	10.44	1296	10.06
	HIGH	1046	8	26.19	17.04	2811	39.66	22.14	13.93	2376	29.52
			9	23.19	15.34	2212	25.92	18.37	11.86	1753	17.18
			10	19.10	13.02	1641	15.26	13.06	9.04	1122	7.80
	MEDIUM	844	8	22.12	14.34	2374	29.46	18.73	11.74	2010	21.94
			9	20.06	13.15	1914	20.11	16.32	10.39	1557	13.94
			10	16.14	10.96	1386	11.32	10.63	7.44	913	5.41
	LOW	675	8	18.46	11.93	1982	21.42	15.64	9.78	1678	15.96
			9	16.73	10.94	1597	14.58	13.55	8.62	1293	10.05
			10	13.39	9.09	1150	8.15	6.32	5.11	543	2.16
SUPER LOW	576	8	16.18	10.44	1737	16.95	13.71	8.56	1472	12.67	
		9	14.67	9.58	1400	11.56	11.83	7.52	1129	7.91	
		10	11.60	7.89	997	6.32	5.94	4.65	510	1.94	

I/S = LITER PER SECOND  
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# PERFORMANCE DATA (At Turbo Speed)



## HEATING CAPACITY IN KW

UNIT MODEL	External Static Pa	Air Flow l/s	Water Flow l/hr	Water Pressure drop kPa	Temp.diff. °k=Water entering temp.-Air entering temp.					
					20	30	40	50	60	70
IZNH30BPVC-CW	50	680	2600	39.85	10.29	15.49	20.71	25.94	31.18	36.42
			2200	29.66	10.11	15.23	20.37	25.53	30.69	35.86
			1800	20.80	9.85	14.86	19.89	24.94	30.00	35.07
	75	620	2400	34.61	9.54	14.36	19.21	24.06	28.92	33.79
			2000	24.80	9.36	14.10	18.87	23.65	28.43	33.23
			1600	16.84	9.10	13.72	18.37	23.03	27.70	32.39
	100	556	2300	32.11	8.77	13.20	17.64	22.10	26.56	31.02
			1900	22.86	8.61	12.96	17.34	21.73	26.12	30.52
			1500	14.99	8.36	12.60	16.87	21.16	25.45	29.76
IZNH36BPVC-CW	50	800	3400	35.96	13.93	20.97	28.04	35.13	42.22	49.32
			3000	28.74	13.75	20.71	27.70	34.71	41.72	48.76
			2600	22.31	13.52	20.37	27.26	34.17	41.08	48.02
	75	762	3300	34.01	13.41	20.18	26.99	33.80	40.63	47.46
			2900	27.05	13.23	19.93	26.65	33.39	40.14	46.91
			2500	20.90	13.00	19.59	26.21	32.86	39.51	46.18
	100	712	3200	32.18	12.72	19.14	25.60	32.06	38.53	45.00
			2800	25.40	12.55	18.90	25.28	31.67	38.07	44.49
			2400	19.33	12.33	18.58	24.86	31.16	37.47	43.79
IZNH48BPVC-CW	50	1010	4100	26.58	16.86	25.36	33.91	42.46	51.02	59.60
			3700	22.16	16.69	25.12	33.59	42.07	50.56	59.07
			3300	18.11	16.48	24.81	33.19	41.59	49.99	58.41
	75	945	3900	24.31	15.98	24.04	32.13	40.24	48.35	56.48
			3500	20.07	15.81	23.80	31.83	39.87	47.91	55.97
			3100	16.25	15.60	23.50	31.43	39.39	47.34	55.32
	100	877	3600	21.08	15.01	22.58	30.18	37.80	45.42	53.05
			3200	17.17	14.83	22.33	29.86	37.40	44.95	52.52
			2800	13.60	14.61	22.01	29.44	36.89	44.35	51.83
IZNH60BPVC-CW	50	1132	5300	28.55	21.71	32.67	43.68	54.70	65.74	76.80
			4800	24.37	21.50	32.37	43.29	54.23	65.18	76.16
			4300	20.03	21.25	32.00	42.81	53.65	64.49	75.37
	75	1056	5000	25.76	20.49	30.84	41.23	51.64	62.06	72.50
			4500	21.71	20.29	30.54	40.84	51.17	61.51	71.86
			4000	17.60	20.03	30.17	40.36	50.58	60.81	71.07
	100	955	4600	22.55	18.85	28.36	37.91	47.48	57.07	66.66
			4100	18.37	18.64	28.07	37.53	47.02	56.52	66.04
			3600	14.57	18.38	27.69	37.05	46.44	55.83	65.25
IZNH75BPVC-CW	50	1342	5900	28.47	24.85	37.38	49.96	62.56	75.16	87.79
			5400	24.34	24.65	37.09	49.58	62.09	74.61	87.15
			4900	20.50	24.41	36.74	49.12	61.53	73.95	86.39
	75	1252	5600	25.94	23.45	35.27	47.14	59.02	70.91	82.82
			5100	21.98	23.25	34.99	46.77	58.57	70.38	82.21
			4600	18.29	23.02	34.64	46.31	58.01	69.72	81.45
	100	1140	5200	22.73	21.66	32.58	43.54	54.52	65.50	76.50
			4700	19.02	21.47	32.30	43.18	54.08	64.98	75.90
			4200	15.57	21.23	31.96	42.73	53.53	64.33	75.16
IZNH85BPVC-CW	50	1648	7100	30.06	30.28	45.56	60.89	76.25	91.63	107.02
			6600	26.57	30.07	45.25	60.50	75.77	91.05	106.36
			6100	23.10	29.83	44.90	60.03	75.20	90.04	105.59
	75	1529	6700	27.27	28.45	42.80	57.21	71.64	86.08	100.54
			6200	23.75	28.25	42.50	56.82	71.16	85.51	99.89
			5700	20.46	28.00	42.15	56.36	70.60	84.85	99.13
	100	1390	6300	24.41	26.30	39.55	52.86	66.19	79.53	92.89
			5800	21.07	26.10	39.27	52.49	65.74	79.00	92.28
			5300	17.96	25.87	38.93	52.06	65.21	78.37	91.56



# PERFORMANCE DATA (At Turbo Speed)

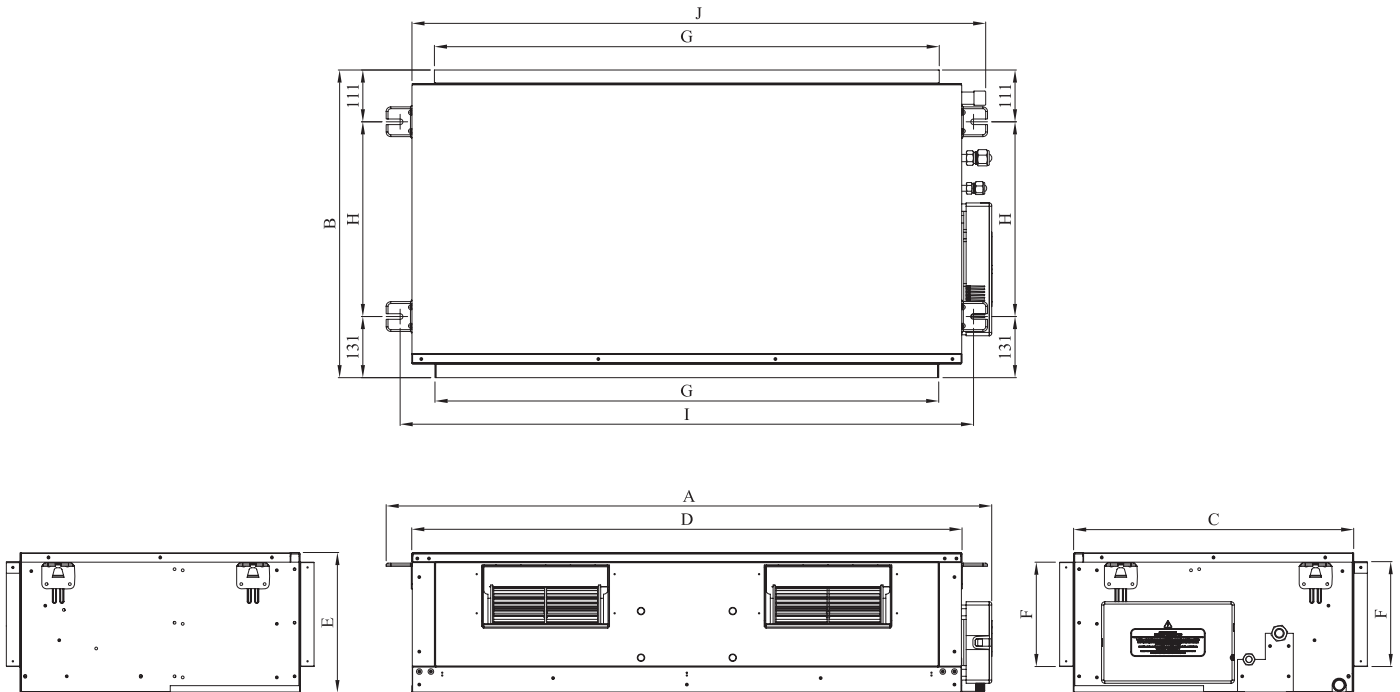


## HEATING CAPACITY IN KW

UNIT MODEL	External Static Pa	Air Flow l/s	Water Flow l/hr	Water Pressure drop kPa	Temp.diff. °k=Water entering temp.-Air entering temp.					
					20	30	40	50	60	70
IZNH30BPVC-CW	50	680	2600	39.85	10.29	15.49	20.71	25.94	31.18	36.42
			2200	29.66	10.11	15.23	20.37	25.53	30.69	35.86
			1800	20.80	9.85	14.86	19.89	24.94	30.00	35.07
	75	620	2400	34.61	9.54	14.36	19.21	24.06	28.92	33.79
			2000	24.80	9.36	14.10	18.87	23.65	28.43	33.23
			1600	16.84	9.10	13.72	18.37	23.03	27.70	32.39
	100	556	2300	32.11	8.77	13.20	17.64	22.10	26.56	31.02
			1900	22.86	8.61	12.96	17.34	21.73	26.12	30.52
			1500	14.99	8.36	12.60	16.87	21.16	25.45	29.76
IZNH36BPVC-CW	50	800	3400	35.96	13.93	20.97	28.04	35.13	42.22	49.32
			3000	28.74	13.75	20.71	27.70	34.71	41.72	48.76
			2600	22.31	13.52	20.37	27.26	34.17	41.08	48.02
	75	762	3300	34.01	13.41	20.18	26.99	33.80	40.63	47.46
			2900	27.05	13.23	19.93	26.65	33.39	40.14	46.91
			2500	20.90	13.00	19.59	26.21	32.86	39.51	46.18
	100	712	3200	32.18	12.72	19.14	25.60	32.06	38.53	45.00
			2800	25.40	12.55	18.90	25.28	31.67	38.07	44.49
			2400	19.33	12.33	18.58	24.86	31.16	37.47	43.79
IZNH48BPVC-CW	50	1010	4100	26.58	16.86	25.36	33.91	42.46	51.02	59.60
			3700	22.16	16.69	25.12	33.59	42.07	50.56	59.07
			3300	18.11	16.48	24.81	33.19	41.59	49.99	58.41
	75	945	3900	24.31	15.98	24.04	32.13	40.24	48.35	56.48
			3500	20.07	15.81	23.80	31.83	39.87	47.91	55.97
			3100	16.25	15.60	23.50	31.43	39.39	47.34	55.32
	100	877	3600	21.08	15.01	22.58	30.18	37.80	45.42	53.05
			3200	17.17	14.83	22.33	29.86	37.40	44.95	52.52
			2800	13.60	14.61	22.01	29.44	36.89	44.35	51.83
IZNH60BPVC-CW	50	1132	5300	28.55	21.71	32.67	43.68	54.70	65.74	76.80
			4800	24.37	21.50	32.37	43.29	54.23	65.18	76.16
			4300	20.03	21.25	32.00	42.81	53.65	64.49	75.37
	75	1056	5000	25.76	20.49	30.84	41.23	51.64	62.06	72.50
			4500	21.71	20.29	30.54	40.84	51.17	61.51	71.86
			4000	17.60	20.03	30.17	40.36	50.58	60.81	71.07
	100	955	4600	22.55	18.85	28.36	37.91	47.48	57.07	66.66
			4100	18.37	18.64	28.07	37.53	47.02	56.52	66.04
			3600	14.57	18.38	27.69	37.05	46.44	55.83	65.25
IZNH75BPVC-CW	50	1342	5900	28.47	24.85	37.38	49.96	62.56	75.16	87.79
			5400	24.34	24.65	37.09	49.58	62.09	74.61	87.15
			4900	20.50	24.41	36.74	49.12	61.53	73.95	86.39
	75	1252	5600	25.94	23.45	35.27	47.14	59.02	70.91	82.82
			5100	21.98	23.25	34.99	46.77	58.57	70.38	82.21
			4600	18.29	23.02	34.64	46.31	58.01	69.72	81.45
	100	1140	5200	22.73	21.66	32.58	43.54	54.52	65.50	76.50
			4700	19.02	21.47	32.30	43.18	54.08	64.98	75.90
			4200	15.57	21.23	31.96	42.73	53.53	64.33	75.16
IZNH85BPVC-CW	50	1648	7100	30.06	30.28	45.56	60.89	76.25	91.63	107.02
			6600	26.57	30.07	45.25	60.50	75.77	91.05	106.36
			6100	23.10	29.83	44.90	60.03	75.20	90.04	105.59
	75	1529	6700	27.27	28.45	42.80	57.21	71.64	86.08	100.54
			6200	23.75	28.25	42.50	56.82	71.16	85.51	99.89
			5700	20.46	28.00	42.15	56.36	70.60	84.85	99.13
	100	1390	6300	24.41	26.30	39.55	52.86	66.19	79.53	92.89
			5800	21.07	26.10	39.27	52.49	65.74	79.00	92.28
			5300	17.96	25.87	38.93	52.06	65.21	78.37	91.56

## UNIT DIMENSION & WEIGHT

### DUCTED INDOOR UNIT



MODEL	DIMENSION (mm.)										WEIGHT (Kg.)
	A	B	C	D	E	F	G	H	I	J	
IZNH30	1300	660	600	1180	300	224	1080	418	1231	1230	45
IZNH36	1520	720	660	1400	360	284	1300	478	1451	1450	62
IZNH48	1520	720	660	1400	360	284	1300	478	1451	1450	73
IZNH60	1520	910	850	1400	440	364	1300	668	1451	1450	80
IZNH75	1790	870	810	1650	440	365	1550	610	1790	1230	88
IZNH85	1990	870	810	1850	440	365	1750	610	1990	1700	98

**THANK YOU FOR VISITING US**



**IZUMI CORPORATION, TOKYO, JAPAN**

3-12-8, Sumida-ku, kinshi, Tokyo.

Tel. +81-03-5848-2500, Fax.+81-03-5545-3642

info@izumicool.com, www.izumicool.com