



IPT Series

Chiller

Hermetic Water Chiller

For Asia

**For Industrial
Air-Cooled & Water Cooled**



All Models Discharge Heat From The Top Of The Machine

Warranty
Compressor
Evaporator **2** years

Energy Saving / High-Efficiency / High-Quality

DIT AIR

Is one of the leading professional manufacturer of air dryers, chillers, heat pumps, and air systems. we market both domestically and internationally (Asia, USA and Europe) and are the biggest exporter of the field to Europe.

We are supported by the Board of Investment of Thailand (BOI) with ISO 9001:2008 certified; Therefore our quality standard level is assured.

QUALITY POLICY:

**PRODUCE QUALITY PRODUCTS
CONTINUAL DEVELOPMENT**

**PROVIDE QUICK SERVICE
HIGH STANDARDS FOR CUSTOMER SATISFACTION**

The evolution of perfection – IPT

- ✦ The new IPT air/water cooled chillers, specifically designed for use industrial applications, are compact units equipped, as standard, with an internal strong tank and pump, offering a tried and tested solution that has received customer acclaim. **"IPT"** chillers guarantee energy efficiency levels at the top of the category.
- ✦ The innovation evaporator-in-tank configuration ensures reduced ambient heat gain and a steady temperature of the process fluids.
- ✦ The use of components sourced from premium manufacturers and extensive factory testing of all units make for highest reliability levels, minimizing the risks of unplanned stoppages and increasing productivity levels. An extensive range of accessories, Coupled with operating limits among the most generous available on the market, allow **"IPT"** to be personalized to a variety of industrial applications.
- ✦ This unit has a water tank inside , water temperature can be maintained at 1~2°C

Microprocessor control

- Chilled water temperature control due to compressor's ON/OFF regulation system or activation of capacity step
- Compressor-start timing and control of inrush number limitation
- Anti-freeze protection
- Digital display operator interface



Compact electrical panel

- High quality components allow 30% free space.
- Follow European standard



Fans section

- Axial fans directly coupled to the electric motor, External rotor type, with special watertight, Bearings free from servicing and incorporated Thermal protection.
- Fans have blades with haul profile , dynamically and Statically balanced and equipped with accident Prevention grill on air inlet.

Water pressure gauge

- protects against low water flow by monitoring
- the pressure between the buffer tank entry and the pump outlet

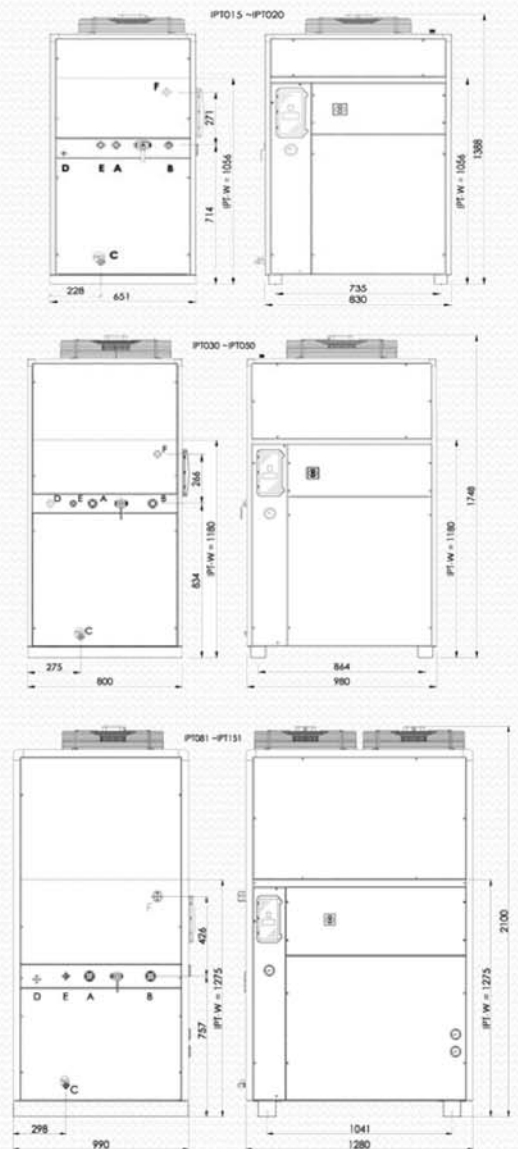
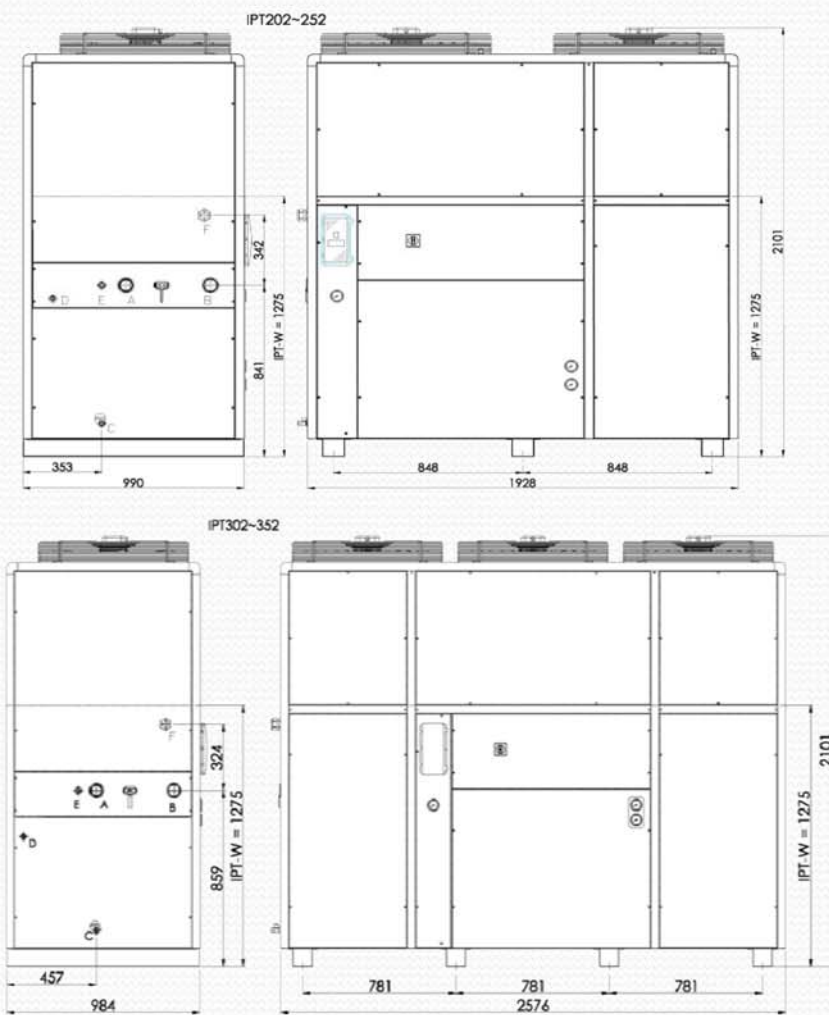


Compressor

- Depending on model semi-hermetic or Advanced hermetic scroll compressor generates satisfied Cooling capacity with low power consumption.
- simple construction , fewer moving parts and high reliability
- Low noise level and minimal vibration.



Dimensions(mm)



" NIPT " Standard Specification Air Cooled & Water Cooled

Model		IPT	015	020	030	050	080	101(2)	121(2)	151(2)	201(2)	251(2)	
IPT-A	Cooling Capacity	Kw	5.3	6.4	10.5	18	23	35	42	46	65	82	
		Kcal	4,600	5,500	9,000	17,500	19,800	30,100	36,100	39,600	55,900	70,500	
		BTU	18,253	21,824	35,712	69,440	78,566	119,437	143,245	157,133	221,811	279,744	
		Ton	1.52	1.82	2.98	5.79	6.55	9.95	11.94	13.09	18.48	23.31	
	Power Input	Kw	1.2	2.3	3.7	5.3	7.8	10	11	15	19	22	
		Current	A	7	11	6	9	13	16	18	20	32	36
	Air Cooled	fan	no.	1	1	1	1	1	2	2	2	3	3
		Air Flow	m³/h	2,100	4,000	6,300	8,000	8,500	12,000	14,000	16,500	20,000	25,000
	Dimensions	Weight	Kg	140	180	220	270	350	580	620	680	810	940
		Length	mm	600	650	700	700	700	700	700	700	700	700
Width		mm	600	750	850	850	850	1200	1200	1200	1850	1850	
Height		mm	1200	1600	1800	1800	1800	2100	2100	2100	2100	2100	

IPT-W	Cooling Capacity	Kw	6	7	12	21	26	40	48	53	75	94	
		Kcal	5,300	6,400	10,400	19,800	22,800	34,600	41,600	45,500	64,300	81,000	
		BTU	21,030	25,395	41,267	78,566	90,470	137,293	165,069	180,544	255,142	321,408	
		Ton	1.75	2.12	3.44	6.55	7.54	11.44	13.76	15.05	21.26	26.78	
	Power Input	Kw	1.1	2	3.3	4.7	6.9	8.8	9.7	13	17	19	
		Current	A	6	10	5	8	11	14	16	23	28	32
	Water Cooled	Type	Standard Stainless plate heat exchang (Option Shell & Tube)										
		Connect	inch	1/2"	1"	1"	1"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2"
	Dimensions	Water Flow	L/mim	30	35	50	65	110	150	170	220	280	330
		Weight	Kg	110	150	185	225	300	530	570	610	740	860
Length		mm	600	650	700	700	700	700	700	700	700	700	
Width		mm	600	750	850	850	850	1200	1200	1200	1850	1850	
	Height	mm	800	810	960	960	960	1200	1200	1200	1200	1200	

Chiller	Tank Capacity	L	30	60	60	100	100	160	160	160	300	300	
	Water Flow	L/min	20	25	30	50	75	100	130	150	190	230	
	Connect Size	inch	1/2"	1"	1"	1"	1"	1-1/2"	1-1/2"	1-1/2"	2"	2"	
	Standard Pump (2.5 bar)	hp	0.5	0.5	1	1	1	1 (2)	1 (2)	1 (2)	1 (2)	1 (2)	
	Circuit Quantity	no	1	1	1	1	1	1	1	1	1	1	
	Capacity Step	%	0 / 100										
	Evaporator Type	-	Standard Stainless plate heat exchang (Option Shell & Tube)										
	Compressor Type	-	Rotary										
	Refrigerant	-	R407c										
	Power Source	-	1ph/220V/50Hz										
	Max. Power Input	Kw	2	3	6	7	14	17	20	25	33	38	
	Max. Current	A	10	19	10	11	21	27	31	38	50	59	
Safety devices	-	High / Low Pressure Switch , Chilled Water Low Temp. Swith , Thermal Overload , Compressor Internal Thermostat , Phase Reverse Relay , Water By-Pass , Water Flow Switch											

Model		IPT	301(2)	351(2)	402(4)	502(4)	602(4)	702(4)	804	1004	1204	1404	
IPT-A	Cooling Capacity	Kw	98	115	130	155	195	230	260	310	383	460	
		Kcal	84,300	98,900	118,000	133,300	167,700	197,800	223,600	266,600	329,400	395,600	
		BTU	334,502	392,435	468,224	528,934	665,434	784,870	887,245	1,057,869	1,307,059	1,569,741	
		Ton	27.88	32.70	39.02	44.08	55.45	65.41	73.94	88.16	108.92	130.81	
	Power Input	Kw	26	30	38	46	52	60	76	90	100	115	
		Current	A	40	49	60	70	80	98	120	135	145	190
	Air Cooled	fan	no.	4	4	6	6	8	8	8	8	8	8
		Air Flow	m³/h	30,000	33,000	45,000	50,000	60,000	66,000	69,000	90,000	105,000	120,000
	Dimensions	Weight	Kg	1,050	1,250	1,450	1,650	1,850	2,250	2,600	2,900	3,350	3,950
		Length	mm	700	700	1360	1360	1360	1360	1360	1360	1360	1360
Width		mm	2440	2440	1850	1850	2440	2440	3600	3600	5000	5000	
Height		mm	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	

IPT-W	Cooling Capacity	Kw	113	132	150	178	224	265	299	357	440	529	
		Kcal	97,000	113,700	128,600	153,300	192,900	227,500	257,000	306,600	378,800	455,000	
		BTU	384,896	451,162	510,285	608,294	765,427	902,720	1,019,776	1,216,589	1,503,078	1,805,440	
		Ton	32.07	37.60	42.52	50.69	63.79	75.23	84.98	101.38	125.26	150.45	
	Power Input	Kw	22	28	36	40	44	56	70	85	96	109	
		Current	A	32	42	56	60	64	84	106	125	135	170
	Water Cooled	Type	Standard Stainless plate heat exchang (Option Shell & Tube)										
		Connect	inch	2-1/2"	3"	3"	4"	4"	5"	5"	6"	6"	6"
	Dimensions	Water Flow	L/mim	380	430	560	660	760	860	1,200	1,350	1,520	1,700
		Weight	Kg	950	1,125	1,300	1,400	1,620	1,950	2,300	2,610	3,010	3,550
Length		mm	700	700	1360	1360	1360	1360	1360	1360	1360	1360	
Width		mm	2440	2440	1850	1850	2440	2440	3600	3600	5000	5000	
	Height	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	

Chiller	Tank Capacity	L	460	460	600	600	1,000	1,000	1,400	1,400	2,000	2,000	
	Water Flow	L/min	280	320	380	460	560	640	760	900	1,120	1,280	
	Connect Size	inch	2-1/2"	3"	3"	4"	4"	5"	5"	6"	6"	6"	
	Standard Pump (2.5 bar)	hp	3	4	4	5.5	5.5	7.5	7.5	10	10	10	
	Circuit Quantity	no	1 (2)	1 (2)	2 (4)	2 (4)	2 (4)	2 (4)	4	4	4	4	
	Capacity Step	%	0 / 100 (0 / 50 / 100)										
	Evaporator Type	-	Standard Stainless plate heat exchang (Option Shell & Tube)										
	Compressor Type	-	Hermetic Scroll										
	Refrigerant	-	R22 / R407c (Option)										
	Power Source	-	3 ph / 380V / 50Hz										
	Max. Power Input	Kw	46	57	62	78	92	109	120	145	170	205	
	Max. Current	A	71	87	95	119	140	167	180	210	260	310	
Safety devices	-	High / Low Pressure Switch , Chilled Water Low Temp. Swith , Thermal Overload , Compressor Internal Thermostat , Phase Reverse Relay , Water By-Pass , Water Flow Switch											

Air Cooled Ambient Temperature 35°C / Chiller Water Inlet Temperature 12°C , Chiller Water Outlet Temperature 7°C
 Water Cooled Cooling water Temperature Inlet30°C , Outlet 35°C / Chiller Water Inlet Temperature 12°C , Chiller Water Outlet Temperature 7°C