

# High Capacity Ice Builders



- Ice Builders c/w Danfoss R449A TXV fitted, Suction & Liquid header, Ice thickness controller, Water circulating pump, and Air blower as standard.
- Constructed from food quality 304-18.8 grade stainless steel for guaranteed resistance to corrosion.
- Sealed and pressure-filled with expanded polyurethane in the outer double-walled cavity for greater stability and superior insulation.
- Configurable with reliable and efficient PattonPak condensing units.
- PattonPak PVTZ Inverter units are available for additional energy savings and stable condensing.

IB0500 fitted with PVTZ600 combination shown as a set on skid legs.

## IB ICE BUILDER 0500 - 1080

### ICE BUILDER

Model	Refrigerant	Refrigeration Circuits	Ice Reserve Capacity			Flow Rate Range (l/min) (1)	
			kWh	kCal	kg of Ice	Total Head = 7.5m	Total Head = 2.1m Min.
IB0500	R449A	4	92	79180	990	100	320
IB1080	R449A	8	190	164000	2050	100	320

### CONDENSING UNIT Capacity (kW) @ 45°C

Model	Nom. hp	Refrigerant	Evaporating Temp °C -5	Fan Types
ZX060	6.0	R449A	12.00	AC
PZB600	6.0	R449A	12.05	EC
PVTZ600	6.0	R449A	12.10 (2)	EC
PMTZ1350	13.5	R449A	25.60	EC
PZB1300	13.0	R449A	26.30	EC
PVTZ1300	13.0	R449A	27.15 (2)	EC

### RECOMMENDED OPTIONS

Ice Builder Model	Condensing Unit Model		
IB0500	PVTZ600	PZB600	ZX060
IB1080	PVTZ1300	PZB1300	PMTZ1350

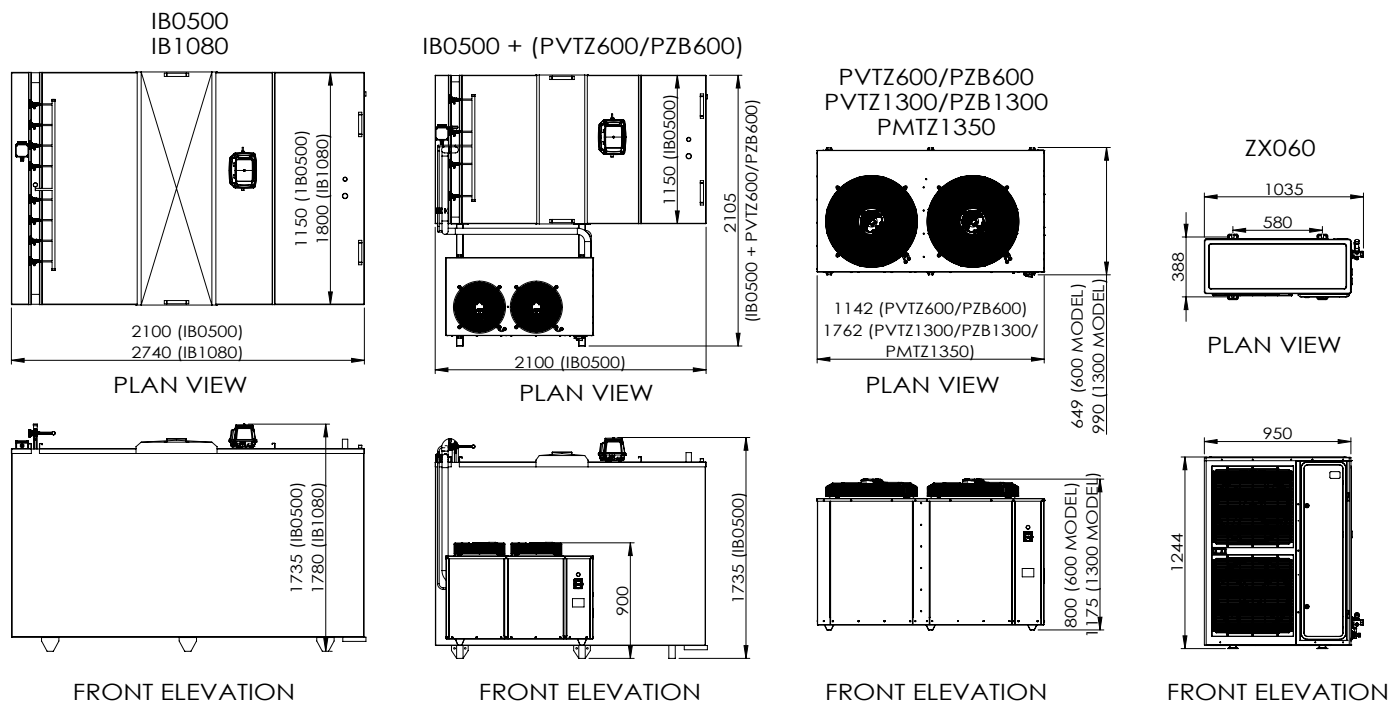
Highlighted options are available as a combined set (units are fitted) or separately.

Non-highlighted options/combinations are only available as separate units.

Only IB0500 units have bolt-on skid mounting plates and come with skid legs as standard.

Ice Builders are offered on their own or with a Patton Condensing unit. For all applications outside the listings or assistance with selection please contact your local Patton branch.

**DIMENSIONS**



NTS (mm)

Please check PMTZ, PVTZ & PZB technical brochures for more dimensional information.

**TECHNICAL DATA - Ice Builder**

MODEL	PUMP			AIR BLOWER			CONNECTIONS					Wgt (kg)
	Voltage	Watts	Amps	Voltage	Watts	Flow (l/min)	Water			Refrigerant		
							Return	Discharge	Drain	Suction	Liquid	
IB0500	220-240/1/50	800	3.94	230/50	86	80	1-1/4" BSP Male	1" BSP Male	1" BSP Female	7/8"	1/2"	540
IB1080	220-240/1/50	800	3.94	230/50	86	80	1-1/4" BSP Male	1" BSP Male	1" BSP Female	1-1/8"	5/8"	960

**TECHNICAL DATA - Condensing Unit**

MODEL	COMPRESSOR					CONDENSER				RECEIVER	CONNECTIONS		Wgt (kg)
	Nom. hp	Model	Voltage	RLA Amps	LRA Amps	Model	Fan Motors			Capacity (kg) (4)	Suction	Liquid	
							No. (3)	Tot. Watts	Tot. Amps				
ZX060	6.0	ZX45KCE-TFD	380-420/3/50	14.7	67.0	-	2 x 450	246	1.2	6.3	7/8"	1/2"	112
PZB600	6.0	ZB45KCE-TFD	380-420/3/50	13.1	74.0	CPK600	2 x 350	300	1.9	8.8	7/8"	1/2"	125
PVTZ600	6.0	VTZ086	380-420/3/50	16.0	74.0	CPK600	2 x 350	300	1.9	8.8	7/8"	1/2"	135
PMTZ1350	13.5	MTZ160-4VI	380-420/3/50	36.0	130.0	CPK1300	2 x 630	1240	5.4	10.4	1-3/8"	5/8"	231
PZB1300	13.0	ZB95KQE-TFD	380-420/3/50	26.4	140.0	CPK1300	2 x 630	1240	5.4	10.4	1-3/8"	5/8"	225
PVTZ1300	13.0	VTZ171	380-420/3/50	30.5	130.0	CPK1300	2 x 630	1240	5.4	10.4	1-3/8"	5/8"	228

**NOTES:**

- The flow rate range is valid for liquids with density  $\rho = 1,0 \text{ kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{s}$ .
- The rating is at 90hz. All PVTZ units come with VSD closed-loop programme for R449A as standard. Please advise any alternative preference at the time of order
- All fans 220-240/1/50. ZX060 units have AC fans, and all other options are EC fans.
- R404A pump down capacity @ 80% full for 32° C liquid temp.
- Electrically complies to AS/NZS 60335.2.89 : 2002 + A1-A3 (Selected clauses).