

TOYOTOMI hydria+ SPLIT 12-16 KW



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Model			THSR32IU12/1 / THSR32OU12/1	THSR32IU14/1 / THSR32OU14/1	THSR32IU16/1 / THSR32OU16/1	THSR32IU12/3 / THSR32OU12/3	THSR32IU14/3 / THSR32OU14/3	THSR32IU16/3 / THSR32OU16/3
Capacity ¹	Heating (floor heating)	kW	12	14	15.5	12	14	15.5
	Cooling (floor cooling)	kW	11	12.6	13	11	12.6	13
Power Input ¹	Heating (floor heating)	kW	2.4	2.98	3.44	2.4	2.98	3.44
	Cooling (floor cooling)	kW	2.5	3.41	3.6	2.5	3.41	3.6
EER ¹	Cooling (floor cooling)	-	4.4	3.7	3.6	4.4	3.7	3.6
COP ¹	Heating (floor heating)	-	5	4.7	4.5	5	4.7	4.5
Capacity ²	Heating (Fan coil or Radiator)	kW	12.4	14.48	16.09	12.4	14.48	16.09
	Cooling (for Fan coil)	kW	10.59	11.07	11.51	10.59	11.07	11.51
Power Input ²	Heating (Fan coil or Radiator)	kW	3.29	3.93	4.44	3.29	3.93	4.44
	Cooling (for Fan coil)	kW	3.79	4.18	4.49	3.79	4.18	4.49
EER ²	Cooling (for Fan coil)	-	2.79	2.65	2.57	2.79	2.65	2.57
COP ²	Heating (Fan coil or Radiator)	-	3.77	3.68	3.62	3.77	3.68	3.62
Power Supply	V/Ph/Hz	-	230/1/50	230/1/50	230/1/50	400/3/50	400/3/51	400/3/52
Rated input	Cooling	Kw	2.93	2.93	3.9	4.54	5.26	5.98
	Heating	Kw	5.8	6.39	6.89	5.72	6.88	6.88
Rated current	Cooling	A	13.5	13.5	17.4	6.3	7.3	8.3
	Heating	A	25.6	28.7	30.3	7.5	9.3	9.3
Compressor	Type	-	Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary
	Quantity	-	1	1	1	1	1	1
Fan	Type	/	Axial-flow	Axial-flow	Axial-flow	Axial-flow	Axial-flow	Axial-flow
	Quantity	-	1	1	1	1	1	1
Fan Motor	Air flow volume	CFM	2969	2969	2969	2969	2969	2969
	Quantity	-	1	1	1	1	1	1
Fan Motor	Motor Safe Class	-	IP44	IP44	IP44	IP44	IP44	IP44
	Output	W	150	150	150	150	150	150
Refrigerant	Type	-	R32	R32	R32	R32	R32	R32
	Charge	kg	1.84	1.84	1.84	1.84	1.84	1.84
Heat exchanger	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
	Quantity	-	1	1	1	1	1	1
Heat exchanger	Type	-	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Rows	-	3	3	3	3	3	3
	Columns	-	9	9	9	9	9	9
	FPI	Fins/inch	18	18	18	18	18	18
Sanitary water Temperature		°C	40~80	40~80	40~80	40~80	40~80	40~80
Sound Pressure Level	cooling	dB(A)	58	59	60	58	59	60
	heating	dB(A)	60	61	61	60	61	61
Connecting pipe (refrigerant)	Gas	mm(inch)	16(5/8")	16(5/8")	16(5/8")	16(5/8")	16(5/8")	16(5/8")
	Liquid	mm(inch)	6(1/4")	6(1/4")	6(1/4")	6(1/4")	6(1/4")	6(1/4")
Dimensions	Connection method	-	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection	Flare Connection
	Outline (H×W×D)	mm	820×940×460	820×940×460	820×940×460	820×940×460	820×940×460	820×940×460
Weight	Packaged (H×W×D)	mm	973×1103×573	973×1103×573	973×1103×573	973×1103×573	973×1103×573	973×1103×573
	Net	kg	104	104	104	110	110	110
Operation range	Gross	kg	114	114	114	121	121	121
Nominal Operating Condition	Outdoor temp. (DB)	Cooling	°C	35	35	35	35	35
		Heating	°C	7	7	7	7	7
		Water heating	°C	7	7	7	7	7
	Outdoor temp. (WB)	Cooling	°C	24	24	24	24	24
		Heating	°C	6	6	6	6	6
		Water heating	°C	6	6	6	6	6
Operating Range	Outdoor temp. (DB)	Cooling	°C	10~48	10~48	10~48	10~48	10~48
		Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35
		Water heating	°C	-25~45	-25~45	-25~45	-25~45	-25~45
INDOOR UNIT								
Model			THSR32IU12/1	THSR32IU14/1	THSR32IU16/1	THSR32IU12/3	THSR32IU14/3	THSR32IU16/3
Nominal input (indoor only)			6.1	6.1	6.1	6.1	6.1	6.1
Safety valve			1/2<3bar>	1/2<3bar>	1/2<3bar>	1/2<3bar>	1/2<3bar>	1/2<3bar>
Outflow water temp.	Cooling (Fan coil unit)	°C	7	7	7	7	7	7
	Cooling (Floor cooling)	°C	18	18	18	18	18	18
	Heating (Fan coil unit)	°C	45	45	45	45	45	45

		Heating (Floor heating)	°C	35	35	35	35	35	35
Main components	pump	Type	-	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
		Nr. of speed	-	variable-speed	variable-speed	variable-speed	variable-speed	variable-speed	variable-speed
		Power input	W	3-87	3-87	3-87	3-87	3-87	3-87
		Water flow limit	LPM	12	12	12	12	12	12
	Expansion Vessel	Volume	Liter	10	10	10	10	10	10
		Water Pressure(Max)	Bar	3	3	3	3	3	3
		Water Pressure(Pre)	Bar	1	1	1	1	1	1
	Electric Heater	Type	-	Sheath	Sheath	Sheath	Sheath	Sheath	Sheath
		Material	-	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
		Operation	-	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
		Steps	-	2	2	2	2	2	2
		Capacity	kW	6	6	6	6	6	6
		Combination		3+3	3+3	3+3	3+3	3+3	3+3
		Power input	kW	6	6	6	6	6	6
	Heat Exchange	Type	-	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX	Brazed Plate HEX
		Quantity	-	1	1	1	1	1	1
	Sound Pressure Level (cooling mode)		dB(A)	29	29	29	29	29	29
Sound Pressure Level (heating mode)		dB(A)	29	29	29	29	29	29	
Dimensions	Outline (H×W×D)	mm	318×860×460	318×860×460	318×860×460	318×860×460	318×860×460	318×860×460	
	Packaged (H×W×D)	mm	390×1133×568	390×1133×568	390×1133×568	390×1133×568	390×1133×568	390×1133×568	
Weight	Net	kg	59,5	59,5	59,5	59,5	59,5	59,5	
	Gross	kg	68,5	68,5	68,5	68,5	68,5	68,5	

Note:
1 Capacities and power inputs are based on the following conditions:
①.Cooling conditions -
Indoor Water Temperature 23°C/18°C;
Outdoor Air Temperature 35°CDB/24°CWB
②.Heating conditions
Indoor Water Temperature 30°C/35°C
Outdoor Air Temperature 7°CDB/6°CWB
③.Standard piping length 7.5m
2 Capacities and power inputs are based on the following conditions:
①.Cooling conditions
Indoor Water Temperature 12°C/7°C;
Outdoor Air Temperature 35°CDB/24°CWB
②.Heating conditions -
Indoor Water Temperature 40°C/45°C;
Outdoor Air Temperature 7°CDB/6°CWB
③ Standard piping length 7.5m