



BOSCH

Invented for life

Greensource Residential **Water to Water System**

CDi Series: TW Models

Simply Smart

The Greensource CDi Series TW Model Water to Water Systems are available from 2 to 10 tons and are perfect for potable hot water generation, space, pool and radiant floor heating applications - and can even melt snow and ice off your walkway.

boschheatingandcooling.com



TW Model Benefits

Our Geothermal Heat Pump systems are among the most energy and cost efficient systems on the market today and offer the greenest technology for heating and cooling applications. This technology uses the relatively constant temperature of the earth, irrespective of the ambient temperature, which makes it extremely efficient year round in virtually any climate.



Extreme Efficiency

The Greensource CDi Series TW Model with its exclusive design boasts industry leading efficiency at full load heating and cooling, and is even more efficient during part load operation. Heating and cooling loads are calculated using the extreme conditions so unless peak capacity is required, the unit will run at roughly 2/3 capacity with significantly higher efficiencies than competitive products, providing maximum comfort with minimum energy use. This increases your energy savings even further, saving you money and providing peace-of-mind.

Quiet Operation

These units employ a compressor blanket as standard to ensure that they provide quiet operation. The entire refrigerant system is supported by a heavy gauge base that floats on a unique high density, viscoelastic sound barrier. The compressor is covered in a multi-density sound blanket and the heavy gauge steel cabinet is fully insulated. When employed as the heat source for radiant floor systems, this unit is extremely efficient and is one of the quietest systems available to heat and cool your home.

Quality

The unit is covered with a durable, high quality white pre-painted galvanized steel. Rigorous factory testing along with Bosch's 40 years of experience in designing geothermal heat pumps are your assurance of an efficient, quality product. Bosch's ISO 9001- 2008 certified facilities provide consistent quality in every unit we build.

TW122 Model 10 Ton High Efficiency Unit



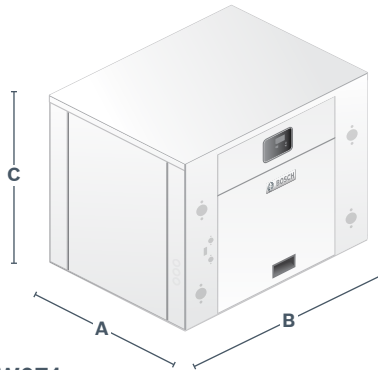
The Bosch TW Model high efficiency water to water product meets current ENERGY STAR Tier 3 efficiency standards. It offers all of the features and comfort of a high end residential appliance, coupled with the ruggedness and durability of a premier industrial unit.

- ▶ Two-stage scroll compressors⁽¹⁾ offer high efficiency
- ▶ Dual density compressor blankets provide quiet operation
- ▶ Cabinet is made of durable, high quality white pre-painted galvanized steel
- ▶ Comfort alert diagnostic module (optional)
- ▶ Schrader access ports, high & low pressure switch, and lockout circuit
- ▶ UPM unit protection module standard in -CSC, -CSN models
- ▶ Unit mounted controller standard on -USC, -USN models
- ▶ Single point electrical connection
- ▶ 75VA transformer

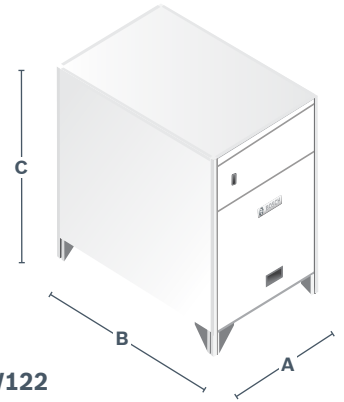


(1) Two-stage compressors are up to size 071. TW122 has dual circuit scroll compressors.

Technical Features



TW025 - TW071



TW122

MODEL NUMBER	DIMENSIONS VERTICAL/COUNTERFLOW		
	A (WIDTH)	B (DEPTH)	C (HEIGHT)
TW025	24.0	32.5	24.1
TW035	24.0	32.5	24.1
TW049	24.0	32.5	24.1
TW061	24.0	32.5	24.1
TW071	24.0	32.5	24.1
TW122	28.0	46.0	37.5 ⁽²⁾



MODEL NUMBER	PERFORMANCE DATA - ALL TW MODELS ARE ENERGY STAR COMPLIANT											
	Load Temperature											
	WATER LOOP (WLHP)				GROUND WATER (GWHP)				GROUND LOOP (GLHP)			
	53.6°F		104°F		53.6°F		104°F		53.6°F		104°F	
	Source Temperature											
	86°F		68°F		59°F		50°F		77°F		32°F	
	Capacity and Efficiency Data											
Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP	

ASHRAE/AHRI/ISO 13256-2. English (I-P) Units

FULL LOAD	MODEL	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP
	TW025	21000	13.4	31000	4.4	24500	21.2	25000	3.5	22500	15.9	19500	3.0
	TW035	29000	12.6	43000	4.3	34000	20.2	34000	3.5	30000	14.6	27000	3.0
	TW049	39000	12.9	58000	4.1	45000	19.7	47000	3.5	41000	14.9	37500	3.0
	TW061	49000	12.9	74500	4.2	55500	19.9	59500	3.5	51000	14.8	48000	3.0
	TW071	57500	13.0	86500	4.2	64000	18.8	70000	3.4	60000	14.8	53500	3.0
	TW122	114000	13.8	160800	4.6	130000	21.3	129500	3.8	119500	16.1	102500	3.0

ASHRAE/AHRI/ISO 13256-2. English (I-P) Units

PART LOAD	MODEL	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP
	TW025	15500	14.7	22000	4.6	18500	25.7	17000	3.7	18000	22.1	15000	3.2
	TW035	22500	14.5	31500	4.7	25000	24.8	25000	3.6	24000	20.6	22000	3.2
	TW049	29000	13.9	42000	4.5	33500	23.6	34500	3.6	32500	20.1	30500	3.2
	TW061	37000	13.7	55000	4.6	42500	23.3	41500	3.6	41000	19.8	38000	3.3
	TW071	43500	13.3	65500	4.4	50500	21.8	52000	3.6	48500	18.7	44500	3.2
	TW122	54900	12.3	78500	4.2	63500	19.0	63600	3.4	61000	16.7	56000	3.2

(2) Dimension includes bottom cabinet feet

Limited Residential Warranty

Coverage for your Heat Pump



With the limited residential warranty, you receive peace-of-mind knowing you will receive replacement parts protection for up to 10 years. This standard offering covers all components incorporated into the unit cabinet at the time of manufacture. Other components or parts that are purchased from Bosch Thermotechnology Corp. and installed in the field have a 1 year replacement parts warranty from proof of certificate of occupancy date or proof of certified start up date. Additionally, a standard 10 year labor-allowance for the unit is included for the replacement of any defective component to help offset labor expenses if a component should fail.

30% Tax Credit for Geothermal Heat Pumps

As of December 1, 2009, home owners who install ENERGY STAR qualified geothermal heat pumps are eligible for a 30% tax credit on the cost of the geothermal system including all installation costs. There is no cap on the federal tax credit. Presently, these tax credits are only available through the end of 2016. The Greensource CDi Series TW Model is compliant with ENERGY STAR Tier 3.

Bosch Thermotechnology Corp.

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