TOSOT

YOUR TRUSTED
COMPANION

APEX

TOSOTAMERICA.COM

YOUR TRUSTED COMPANION

YOUR TRUSTED COMPANION

Let us introduce ourselves. We are TOSOT Bathica. As your trusted companion, our role is to get you comfortably, efficiently, and reliably through the tough Canadian winters and the hot summer months. To achieve this, our team worked diligently identifying and analyzing four pillars of our global value package.

THOSE FOUR PILLARS ARE:

- 1. Reliable and efficient equipment
- 2. Support, Training and Education
- 3. Logistics
- 4. Communication

BENEFITS

- ULTRA HEAT heatpumps are our most efficient heatpumps
- Complete residential and light commercial line-up
- Designed for the North American climate
- Smart defrost, pan heaters and crankcase heaters
- Certifications: AHRI and Energy Star

Each pillar represents several constituents that are constantly being improved to maximize value for our dealers and distribution partners. Aside from the equipment, this also sets us apart from the rest in terms of level of excellence.

In many cold-climate regions of the world, the husky represents performance and reliability in extreme conditions.Snow, our husky, represents these values and reminds you that TOSOT Bathica will be Your Trusted Companion.

GLOSSARY

AIRFLOW
A measure of the amount of air per unit of time that passes through the device. It is measured in CFM (cubic feet per minute).

COP
Stands for Coefficient of Performance. It is the ratio between the cooling or heating provided and the electrical power consumption.

EER
Stands for Energy Efficiency Rating. It measures the ratio of output power to the input power.

REFRIGERANT
A refrigerant is the substance used to «move» the heat outside (or inside) of the room where the device is. We use the refrigerant R-410A as it is environmentally friendly and allows for the design of smaller and more efficient systems compared to R-22.

BTU/h
BTU is the British thermal unit. It is the amount of energy needed to cool or heat 1 pound of water by 1° F. The BTU/h is the unit of power used in HVAC. It corresponds to approximately 0.29 Watt.

DEHUMIDIFICATION
A measure of the amount of water per unit of time that the device is able to extract from the ambient air. It is measured in litres per hour.

HSPF
Stands for Heating Seasonal Performance Factor. It is the ratio between the seasonal heating output and the electricity used.

SEER
Stands for Seasonal Energy Efficiency Ratio. It is the ratio between the seasonal cooling output and the electricity used.

SOUND PRESSURE LEVEL
Sound Pressure is the force of a sound on a surface perpenD-Icular to its D-Irection. It is measured in Pa (Pascal). The lowest sound pressure that can be heard is 2x10 Pa. The Sound Pressure Level is a comparison of the measured sound to the lowest sound pressure hearable. The units are expressed in terms of dB (decibel) which is not linear, that is, if the pressure is D-Oubled, the Sound Pressure Level increases by 6dB. For example, the lowest hearable sound is 0dB while a quiet room is 40dB.

APEX CENTRAL HEAT PUMPS

18-17.5 SEER INVERTER

24,000 BTU TO 60,000 BTU

ULTRA HEAT

YOUR TRUSTED COMPANION

- High And Low Pressure Protection Features
- 24V Controls Compatibility
- Overload Protection Features
- Field Adjustable Capacity
- Up to 100% Heating Capacity at -20° C / -4° F
- Universal Indoor Unit Compatibility
- Up to 78% Heating Capacit at -30° C / -22° F
- Built-In Drain Pan Heater
- Intelligent Defrost

OUTDOOR UNIT			TU36-24WADU		TU60-48WADU	
			24K	36K	48K	60K
Capacity (Min-Rated-Max)	Cooling	BTU/h	8000-24000-30000	10000-36000-40000	20000-48000-50000	25000-57000-60000
	Heating	BTU/h	8000-24000-30000	10000-36000-40000	20000-48000-50000	25000-57000-60000
SEER			18		18-17.5	
EER		(BTU/h)/w	11		10-11	
HSPF / COP			10		9 / 9	
Refrigerant Charge		oz	123		197	
Piping Connection	Liquid	in.	Φ 3/8		Φ 3/8	
	Gas	in.	Φ 3/4		Φ 7/8	
Max total piping		ft.	100		164	
Max. Elevation		ft.	50		50	
Sound Pressure Level		dB(A)	52/55		58/60	
Net Weight		lb	209		304	
Power Supply			208-230V / 60Hz		208-230V / 60Hz	
Wire Size			AWG 18/4		AWG 18/4	
MOP / MCA		A	35 / 24		45 / 35	
Cooling Rated Amps		A	10		19/25	
Heating Rated Amps		A	11		20/25	
Compressor Type			Inverter Rotary		Inverter Rotary	
Dimensions (W x H x D)		in.	37 x 32.3 x 18		37 x 56.3 x 12.6	

AIR HANDLER			TU24-36AADU	TU36-24AADU	TU48-60AADU	TU60-48AADU
Cooling Capacity		BTU/h	24,000	36,000	48,000	54,000
Heating Capacity		BTU/h	27,000	40,000	54,000	60,000
Power Supply		V/Ph/Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz	208/230V~1~60Hz
Power Consumption		W	250	350	500	600
Airflow		PCM / CFM	941	1,176	1,600	2,200
ESP		in. W.G.	0.4	0.4	0.5	0.5
Sound Pressure Level		dB(A)	45	47	49	51
Piping Connection	Liquid	in.	Φ 3/8	Φ 3/8	Φ 3/8	Φ 3/8
	Gas	in.	Φ 3/4	Φ 3/4	Φ 3/4	Φ 3/4
Dimensions (W x H x D)		in.	21¼ x 48¼ x 21¼	21¼ x 48¼ x 21¼	24⅞ x 48¼ x 21¼	24⅞ x 48¼ x 21¼
Net Weight		lb	148	148	179	179

APEX DC INVERTER

UP TO 20 SEER

INVERTER SIDE DISCHARGE CENTRAL HEAT PUMP

YOUR TRUSTED COMPANION

THE FUTURE OF HEATPUMP

UP TO 20 SEER

INVERTER SIDE DISCHARGE CENTRAL HEAT PUMP

EXTREME CLIMATE PERFORMANCE
ULTRAHEAT & ULTRACOOL TECHNOLOGY

Heating Performance*:
100% Capacity at -5°F/-20°C and 78% Capacity at -22°F*/-30°C
Cooling Performance*:
100% Capacity at 115°F/46°C and 78% Capacity at 130°F/54°C
*based on 2 Ton model

THERMOSTAT COMPATIBILITY
UNIVERSAL THERMOSTAT OPTIONS

Compatible with any third party thermostat including NEST®

UNIVERSAL SYSTEM
INSTALL WITH ANY 3RD PARTY AIR HANDLER OR FURNACE

Replaces larger / louder outdoor unit and increase conventional heat pump performance ranges and efficiency for All-Climate applications.

RELIABLE COMFORT
INVERTER COMPRESSOR

The APEX DC Inverter moderates operating load, heating & cooling with less fluctuation for more comfortable climate control, extending component life for fewer breakdowns.

ENERGY EFFICIENT
UP TO 20 SEER

The APEX DC Inverter moderates operating load, increasing efficiency for lower operating costs for both cooling and heating.

SIDE DISCHARGE
NO CLOGGING / LESS SPACE

The APEX takes half the area and, unlike conventional condensers, doesn't fill up with leaves, snow and debris.

QUIET OPERATION
IDEAL FOR SOUND RESTRICTIONS AND OUTDOOR PIECE OF MIND.

For every 10 Decibels (dBa) a sound is twice as loud - making the APEX Series at 55 dB(a) less than half as loud as a conventional top discharge condenser at 73 dB(a).

CORROSION RESISTANT
GOLD FIN CONDENSER

Live on the coast? Don't worry, our condenser is built to resist long term corrosion.

SLIM DESIGN
IDEAL FOR ZERO LOT LINES

Side discharge design takes less than half the area of conventional condensers. Perfect for city lots and between building applications where access and space is limited.

NOTES

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