

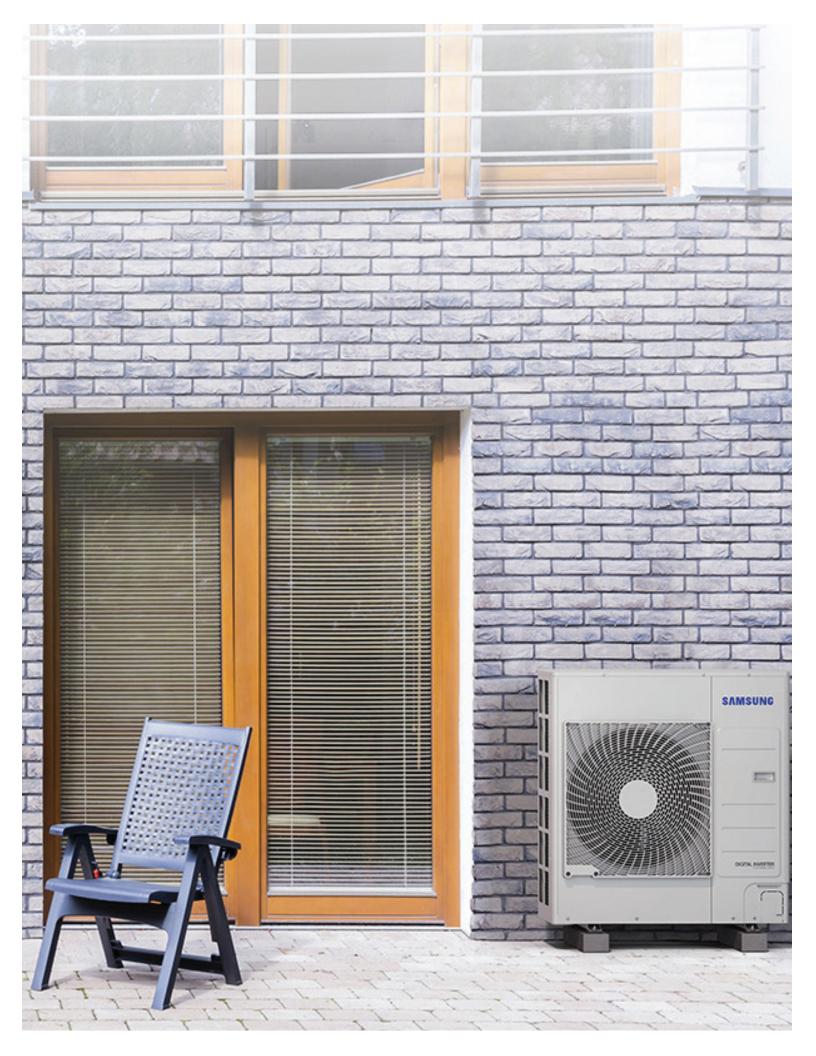
An HVAC game changer.

The Hylex™ unit is a universal, inverter-driven heat pump that serves as a direct replacement for a traditional cooling-only or heat pump unitary outdoor unit. In other words, the game is about to change for residential HVAC.









Lineup









- Capacities from 2-5 tons; single and double fan options for 3 ton unit
 - Single fan option when compact installations are needed, two-fan option for maximum efficiency
- SEER2 up to 18.5
- HSPF2 up to 9.0
- Connects to any coil with TXV (conditions apply)
- Can be used with a furnace or A-coil for dual fuel applications¹
- Configure as heat pump or cooling-only
- Compatible with virtually any 24VAC thermostat
- Features full variable speed compressor with wide modulation
- Base pan heater as standard
- Operating range:
 - Cooling: -4°F (-20°C) ~ 126°F (52.2°C)
 - Heating: Down to -13°F (-25°C)
 - 100% rated heating capacity at 5°F (-15°C) outside temperature²

Overview

The Hylex™ from Samsung is compatible with virtually any existing HVAC system out there. Even better, there's practically no additional equipment needed - no new wires, lines sets or piping when replacing a traditional cooling-only or heat pump unitary outdoor unit. This also makes for much faster and easier installation.

Samsung's innovative design also provides three fan speed control of the indoor unit which increases efficiency, optimizes dehumidification, and reduces sound.

With electrification initiatives driving the consumer decision making process, Hylex™ units were designed for mild to the harshest climates where heat pumps are being installed in place of fossil fuel systems. To promote optimal water drainage during defrost cycles, each unit is equipped with a base pan heater as standard. To ensure the system is configured properly, Samsung has created a web-based tool that asks the installer general system questions and provides a summarized settings report. No special programming tools or computers are required to configure the system.



samsunghvac.com/unitary-settings

Connect to Air Handling Units and Coils with TXV Refrigerant Control

Hylex™ units are universal, inverter driven heat pumps that can connect to any coil with a TXV (conditions apply) that can be applied to full (new system) or partial (replacement) applications.



Reuse Existing Controls Wiring

Whether the system is configured as a cooling-only or heat pump, only 2 wires are required between indoor and outdoor sections. In addition, the Hylex™ unit is compatible with virtually an 24VAC thermostat and can use standard solid-core 18 AWG control wire from the outdoor unit to the indoor section and to the thermostat.



Reuse Existing Refrigerant Piping

The Hylex™ unit uses traditional unitary line sets where the liquid pipe does not require insulation and provides three suction pipe diameter options for even greater installation flexibility for replacement applications.

Unit		Suc	Pipe Limitations (ft.)			
Offic	5/8	3/4	7/8	1 1/8	Length	Vertical Separation
2 ton	1	√ (Standard)	✓		100	65
3 ton (standard)	/	√ (Standard)	✓		164	100
3 ton (high efficiency)		✓	√ (Standard)	✓	164	100
4 ton		✓	√ (Standard)	✓	164	100
5 ton		✓	√ (Standard)	√	100	65



Reduced Sound

Variable speed fan motors, specially engineered fan blades, and acoustically designed compressors reduce sound levels as low as 50 dB(A), compared to 68 dB(A) or more for traditional unitary equipment. This makes the Hylex™ unit ideal for zero-lot-line, sound sensitive applications.

Compact Size

The Hylex™ unit has a smaller footprint compared to a traditional unitary (cube) unit, making it easier to move using a dolly, easier to get through gates and requires less space on the installers truck. In addition, its compact size makes it an ideal solution for new residential zero-lot-line properties.





	US CO DE		CXH24UPB	CXH36UDB	CXH36UPB	CXH48UPB	CXH60UPB
MO DEL	MODELNUMBER		AC024BXUPCH/AA	AC036BXUDCH/AA	AC036BXUPCH/AA	AC048BXUPCH/AA	AC060BXUPCH/AA
PERFORMANCE ¹		COOLING	24,000 Btu/h	36,000 Btu/h	36,000 Btu/h	48,000 Btu/h	57,000 Btu/h
	CAPACITY	HEATING	26,000 Btu/h	34,600 Btu/h	34,600 Btu/h	44,000 Btu/h	53,000 Btu/h
	C.D.C.D.C.D.	COOLING	11,000 - 30,000 Btu/h	16,500 - 40,000 Btu/h	16,500 - 45,000 Btu/h	17,500 - 55,000 Btu/h	17,700 - 59,000 Btu/h
	CAPACITY RANGE	HEATING	7,500 - 35,000 Btu/h	10,500 - 37,000 Btu/h	13,000 - 50,000 Btu/h	13,800 - 62,000 Btu/h	14,000 - 65,000 Btu/h
	SEER2		16.5	17.0	18.5	17.0	17.5
	EER2		10.1	9.0	10.5	8.6	8.5
	HSPF2(REGION IV)		8.10	8.10	8.40	8.50	9.00
	COP2		3.12	3.18	3.02	2.58	2.64
POWER	VOLTAGE	AGE ø/V/Hz		1/208-230/60	1/208-230/60	1/208-230/60	1/208-230/60
	MAX. BREAKER		30 A	35A	35A	40	40
	MIN. CIRCUIT AMPACITY		24.1 A	24.4	25.6	32.7	33.2
UNITDIMENSIONS	WXHXD		37X395/16X13 in.	37 X 39 5/16 X 13 in.	37x475/8x13	37 x 47 5/8 x 13	37x557/8x13
	WEIGHT		163 lbs.	172 lbs.	196 lbs.	196 lbs.	223 lbs.
SOUNDLEVEL	O UTDO O R	COOLING/HEATING(HIGH)	50 / 52 dB(A)	53 / 53 dB(A)	52 / 54 dB(A)	55 / 57 dB(A)	56 / 58 dB(A)
OPERATINGTEMPERATURE	OUTDOOR		-4 - 125°F				
		COOLING*	-20 - 52°C				
		HEATING	-13 - 75°F	-13 - 75°F	-13 - 75°F	-13 - 75°F	-4 - 75°F
		HEATING	-25 - 24°C	-25-24°C	-25 - 24 °C	-25-24°C	-20 - 24°C
PIPE CONNECTIONS	LIQUID(BRAZE)		3/8 in.				
		MINIMUM	5/8 in.	5/8 in.	3/4 in.	3/4 in.	3/4 in.
	SUCTION (BRAZE)	STANDARD	3/4 in.	3/4 in.	7/8 in.	7/8 in.	7/8 in.
		MAXIMUM	7/8 in.	7/8 in.	11/8 in.	11/8 in.	11/8 in.
	MAX. LINE SETLENGTH		98ft.	164 ft.	164 ft.	164 ft.	98 ft.
	MAX. VERTICAL SEPARATION		49 ft.	98 ft.	98ft.	98 ft.	49 ft.
REFRIGERANT	TYPE		R410A	R410A	R410A	R410A	R410A
	FACTORY CHARGE		7.06 lbs.	7.93 lbs.	9.26 lbs.	9.26 lbs.	10.58 lbs.
	CH ARGED FO R		24.6 ft.				
COMPRESSOR	ТҮРЕ		Inverter Driven, Twin BLDC Rotary				
CONDENSERFAN	MOTOR		BLDC With Axial Type Fan (1)	BLDC With Axial Type Fan (1)	BLDC With Axial Type Fan (2)	BLDC With Axial Type Fan (2)	BLDC With Axial Type Fan (2)
	CFM(MAX.)		2,684	2,684	3,531	3,531	4,414
ACCESSORIES	ACU(AHUCONTROLKIT) - MANDATO	RY	MXD-U000XN	MXD-U000XN	MXD-U000XN	MXD-U000XN	MXD-U000XN
	3 SPEED INDOOR FAN RELAY KIT (FO	R USE WITH PSC MOTORS)	URK-3A	URK-3A	URK-3A	URK-3A	URK-3A
	WINDBAFFLE	FRONT	WBF-2M-B	WBF-2M-B	WBF-1M2	WBF-1M2	WBF-6M
	WINDBALLE	BACK	WBB-3M	WBB-3M	WBB-2M-B	WBB-2M-B	WBB-4M
	HAILGUARD		HGK-3	HGK-3	HGK-4	HGK-4	HGK-5
	EXTERNAL CONTACT CONTROL (FOR		MIM-B14	MIM-B14	MIM-B14	MIM-B14	MIM-B14
	WALL BRACKET (FOR OUTDOOR UNIT)		CKN-250	CKN-250	CKN-250	CKN-250	CKN-250
CERTIFICATIONS	ENERGY STAR® V6.1 COLD CLIMATE O	CERTIFIED ²	ENERGY STAR COLD CLIMATE	ENERGYSTAR COLD CLIMATE	ENERGYSTAR COLD CLIMATE	ENERGY STAR COLD CLIMATE	ENERGYSTAR COLD CLIMATE



The Hylex™ heat pump requires an ACU (AHU Control Unit; MXD-U000XN) that installs in between the heat pump outdoor unit, thermostat, and AHU/furnace. In addition to facilitating communication between the Hylex™ outdoor unit and the indoor unit, the ACU provides the installer the option to allow the Hylex™ to fully control the indoor unit fan for improved performance. MXD-U000XN is mandatory and must be purchased separately.



The AHRI Certified@ mark indicates Samsung's participation in the AHRI Certification program. For verification of individual certified products, go to www.ahridirectory.org. ¹Performance data certified by AHRI to AHRI 210-240 (2023). Effective January 1st, 2023.

²Based on connection to specific air handling unit models. Connection to different air handling units or A-coils will result in different capacity and efficiency ratings. Refer to AHRIdirectory.org for a complete list of AHRI listed system combinations.

*With Wind Baffles



Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.

Select models are Energy Star® labeled. Proper sizing and installation of equipment is critical to achieve performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet Energy Star® criteria. Ask your contractor for details or visit www.energystar.gov.

Notes

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