

Hisense COMFORT

Hi-PRO HD Series Heat Pump Condenser Units & Multi-speed Air handlers

Hi-PRO **HD** **454B**
REFRIGERANT



Product Line Up

HI-PRO HD Air Handler & Horizontal Discharge R454B New	Air Handler Indoor Unit	w/ 24		w/ 36		w/ 48		
	Heat Pump Outdoor Unit (R454B)	w/ 24		w/ 36		w/ 48		

Operating Specs

Tons		Outdoor Unit Model	Air Handlers Model	Cooling Capacity (Btu/h)					Heating Capacity(Btu/h)			
				Rated Cap.	Max. Cap.	Max. Cap. @ 110°F	EER2	SEER2	Rated Cap.	Max. Cap.	Max. Cap. @5°F	HSPF2
2	HI-PRO HD	AUWR-2424P	AUH-2424	24000	33000	32000	12	20	24000	37000	20800	10
3		AUWR-3624P	AUH-3624	32000	41000	40000	11.7	19.5	34000	54000	31000	11
4		AUWR-4824P	AUH-4824	48000	50000	50000	11.7	19	48000	51000	42000	9
5		AUWR-6024P	AUH-6024	57000	63500	55000	11	19	57000	63000	42000	9

Serial	Capacity		Outdoor Unit Model	Indoor AHU Model	Energy Star		25C / IRA Tax Credit	
					Standard	Cold Climate	South	North and Canada
Hi-PRO HD	HI-PRO HD	2T	AUWR-2424P	AUH-2424	Yes	Yes	Yes	Yes
Hi-PRO HD		3T	AUWR-3624P	AUH-3624	Yes	Yes	Yes	Yes
Hi-PRO HD		4T	AUWR-4824P	AUH-4824	Yes	Yes	Yes	Yes
Hi-PRO HD		5T	AUWR-6024P	AUH-6024	No	Yes	No	Yes

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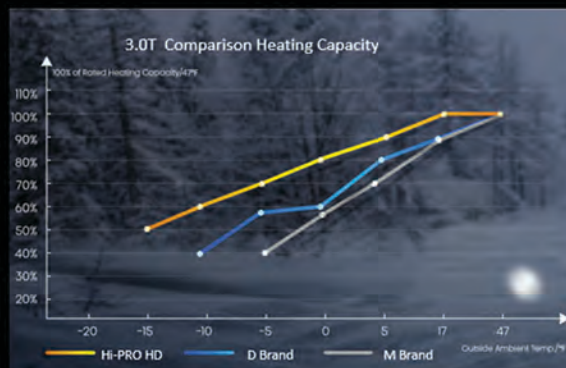
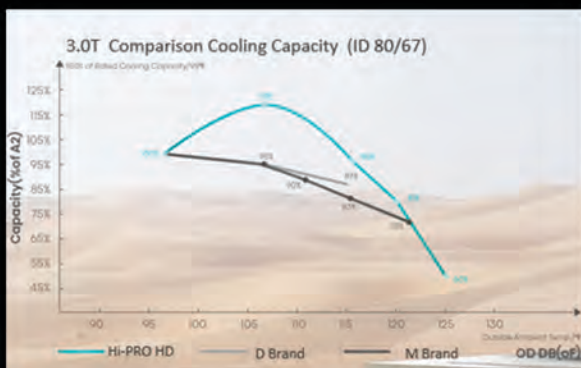
Hi-PRO HD Series Heat Pump Condenser Units & Multi-speed Air handlers

Key Features

- Compact and Slim Side Discharge Design**
 - Easy transportation and installation
 - Reduced space requirements in yard or porch
 - Reduced warehouse and inventory space
 - Easily raised or mounted on wall for additional space clearance from snow and flooding
- R454b Low GWP Refrigerant**
- Flexible Universal Replacement Solution**
 - w/ Hisense AHU, Coil Only + Furnace, 3rd Party Coils and AHUs.
 - Use existing line sets and 24v controls/wiring
- 24V Thermostat Connection**
 - No adapter required
 - Connect to all 24V thermostats (Nest, Ecobee, Honeywell) or Hisense Smart Thermostat
- Up to 20 SEER2 / 12 EER2 / 11 HSPF2 for Energy & Cost Savings**
- Low Temperature Heating: -13°F (-25°C) to 75°F (24°C)**
 - Maintains high heating capacity below 0°F
 - Built-in condenser base pan heater and crank case heater
- High Temperature Cooling: 5°F (-15°C) TO 125°F (52°C)**
 - Maintains high capacity at 110°F
- Quiet Operation: As Low as 54dB on ODU**
- Up to 0.8" WC Maximum ESP**
- Multiple Refrigerant Leak Alarms**
 - Indoor A2L leak sensor on AHU
 - Outdoor shutoff and alarm for pressure drop

Xtreme Cooling & Heating Performance

Hi-PRO HD systems provide strong performance at extreme high and low temperature conditions, even on larger capacity systems (4 & 5 ton). Hi-PRO HD systems achieve up to 100% capacity at 110° (with a standard maximum operating range of 122°) and more than 70% heating capacity at -5° (with an operating range as low as -22°F).



A2L Refrigerant Safety Features

Indoor filled with Nitrogen	Indoor Standard with A2L Sensor	Outdoor Standard with Leak Protection Function
Before installing the air handler, press the relief button as shown in the picture shown below to release the nitrogen from the evaporator coil. If nitrogen is released and you hear a "woosh" sound, it means the evaporator does not have a leak. 	Hi-PRO HD air handlers come standard with A2L leakage sensors. If gas is leaked, the A2L sensor will be quickly activated the following steps. 1) Indoor will run with highest airflow to spread the gas 2) The electric heater kit will be turned off to avoid any risk of igniting the gas. 3) The outdoor unit will shut down and refrigerant will be stored in the outdoor unit. 	Each unit is factory tested 3 times to make sure no refrigerant leaks. 1) Condenser production line 2) Whole unit production line 3) Warehouse before shipping out the machine. After installation, if a leak is detected through a pressure drop, an error code will be triggered, and the system will remain off to protect the system until serviced. 
Indoor filled with Nitrogen	Indoor Standard with A2L Sensor	Outdoor designed with Leak Protection Function
① Immediately identify damage to the evaporator during transportation or prior to install. ② Avoid return calls to site after installation to replace a leaky coil.	① 100% safety for technicians and homeowners	① Quickly identify if the refrigerant system is damaged at time of install. ② Protect the machine if refrigerant levels drop in the future.

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Indoor Evaporator Anti-Corrosion Protection

Hi-PRO HD Advantage:

The indoor evaporator features an improved design with enhanced anti-corrosion, rust prevention and condensation prevention for superior protection in for high humidity environments.



Hi-PRO HD - Xtreme PCB Board

Hi-PRO HD Advantage:

- Thick anti-corrosive coating sprayed on both sides of the Xtreme PCB board
- Prevents damage from insects and small creatures
- Xtreme PCB board can support normal operation with 187~264V to avoid disruptions.



The Hi-PRO HD PCB board is more stable and durable even in Xtreme conditions!

Longer Piping Possibilities

Hi-PRO HD Advantage:

Maximum installation flexibility for large single family, multi-family, or commercial applications.



Fast ODU Installation

Hi-PRO HD Advantage:

Multi position installation for ultimate flexibility to fit all project types and room structures.



True Multi-Position AHU

Easy Maintenance

Hi-PRO HD Advantage:

Replaceable AHU Fuse - Quickly and easily repair units if a fuse is damaged during installation or due to a power surge or short.



The fuse is fixed in the Indoor PCB board. The technician must replace the entire PCB board if the fuse is damaged.

The Fuse in the PCB board of the AHU is replaceable. The technician can easily change the fuse if it is damaged.

Easy Maintenance

Hi-Checker Diagnostics

Hi-Checker is a software to record and monitor operation data of Hisense Inverter systems – providing fast, efficient and professional after-sales, service and repair.



Hi-PRO HD Advantage:

For simple error checking, Hi-PRO HD systems feature a 7-segment code™ readout directly on the outdoor unit for fast diagnostics with no additional tools required.

Advanced DIP Switch Functions

Hi-PRO HD Advantage:

Quick and easy settings for Mandatory Defrost, Refrigerant Gas Reclaim, Capacity Adjustment to 1/2 ton sizes, and Cooling Only mode.



Simply remove the cover board on the ODU and adjust the DIP Switch to your requirements.

Optional Hisense Smart Thermostat

Hi-PRO HD Advantage:

Chose from any 3rd party 24V thermostat or the sensibly priced Hisense Smart Thermostat.

Hisense Model :YXE-L01U(E)

Terminal	Definition
L	AC 100 Common
N	AC 100 Neutral Supply (2-wireless)
AO	AC 100 power supply (heating transformer)
W	Heat & Hot Water/Boiler, Heat & Hot Water
W2	Heat & Hot Water/Boiler, Heating Load for Heat pump, Heat Load for FCU
X1	Control for AC, Heat & Hot Water for Heat pump
X2	Control for AC, Heat & Hot Water for Heat pump, FCU
Q	Refrigerant charge control
Q2	Refrigerant charge control
EMER	Emergency Stop, Heat & Hot Water, Heat Load for FCU
S1	Outdoor sensor terminal S1
S2	Outdoor sensor terminal S2



Key Features

- Smart phone control
- Three operation modes: Comfort, ECO, Schedule
- Schedule programmable
- Color screen display
- Fan control up to 3 speeds
- ERV/HRV on/off control and interlocked to fan
- Clear temperature visibility and controls
- Compressor protection
- OTA upgrade
- Up to 4 heating and 2 cooling stage Early-On

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Product Benchmarking

Brands	Hisense	Daikin	Carrier	Gree	Bosch
Series	Hi-PRO HD/ R454B	DZ6VS/R410A	38MURA/R410A	Ultra Heat/R32	IDS PLUS/R410A
Outdoor	Horizontal Discharge	Horizontal Discharge	Horizontal Discharge	Horizontal Discharge	Top Discharge
IRA Tax Credit (North + South)	Up to 5-ton North / 4-ton South	No	Up to 3-ton	2-ton South / Up to 5-ton North Only	Yes
Capacity/ Btu/h	18K - 60K	18K - 55K	18K - 60K	24K - 60K	24k-60k
Efficiency/ Btu/h.w	UP TO 20 SEER2 / 11 HSPF2	UP TO 17.5 SEER2 / 8.6 HSPF2	UP TO 18 SEER / 10 HSPF2	UP TO 17 SEER 2/ 10.5 HSPF	UP TO 17.5 SEER2 / 8 HSPF2
Heating Range/°F	-13°F TO 75°F	-20°F TO 70°F	-13°F TO 122°F	-22°F TO 75°F	-4°F TO 86°F
Cooling Range/°F	5°F TO 125°F High Capacity at 110°F	0°F TO 115°F	-13°F TO 122°F	5°F TO 129°F	15°F TO 125°F
Max Heating/5°F M1	42,000	32,400	46000	45000	38500
Max. Pipe Length(ft)	264	100	213	100	150
Pipe connection adaptor	No	No	Needed	Needed	No
24V Thermostat	Yes	No	Yes	Yes	Yes
Removable Fuse	Yes	No	No	No	No



www.HisenseComfort.com