HS-EC SERIES

High Static / Air or Water Cooled Condensing Unit
Ducted Evaporator with Digital Controller

SYSTEM INFORMATION

The High Static (HS-EC) Systems are designed to provide refrigerated air to medium-high temperature spaces. HS-EC evaporators are powerful enough to be installed with a combined duct run of up to 50'. The air is ducted to and from the room, eliminating noise or the inconvenience of an in-room evaporator, which frees up valuable space.

HS-EC evaporators are available in capacities from 1,800 to 22,000 BTU per hour and are used with R134a, R404, R410A, R22 all by a simple valve adjustment.

FEATURES

- Remote mounted so it occupies no space and creates no noise in the wine cellar
- Filter case is easily accessible
- Provides static pressure for duct runs up to 50' supply/return combined
- Energy efficient EC motors meet or exceed California standards
- Insulated rust-proof aluminum housing
- Thermally protected permanently lubricated motor
- Automatic expansion valve (standard) ensures constant coil temperature to promote "Humidity Balance"
- Pump-down solenoid valve (standard) protects compressor in the event of leaks
- Pr-installed valves eliminate additional wiring to thermostat
- Pressure tested by the manufacturer to ensure quality
- Factory-wired for simple field installation
- ETL certified

OPTIONS

- Secondary drain pan for elevated and sensitive installations
- Stainless steel cabinets for high corrosive environments
- Eco-friendly water-cooled condensing units available
- Industrial applications available
- Flat black powder coated units available

Due to continuing engineering improvements, specifications are subject to change without notice.
*BTUH is an estimated range based on specific operational criteria.
*Individual component part numbers are different than a system assembly number.
*Max Cubic Footage is an estimation assuming No glass, R13 insulation or more, interior ambient temperature of 80° or less, exterior ambient temperature of 95° or less.

(562) 513-3017 phone 562-728-5774 Tech Line
www.uscellarsystems.com | info@uscellarsystems.com

HS-EC SERIES

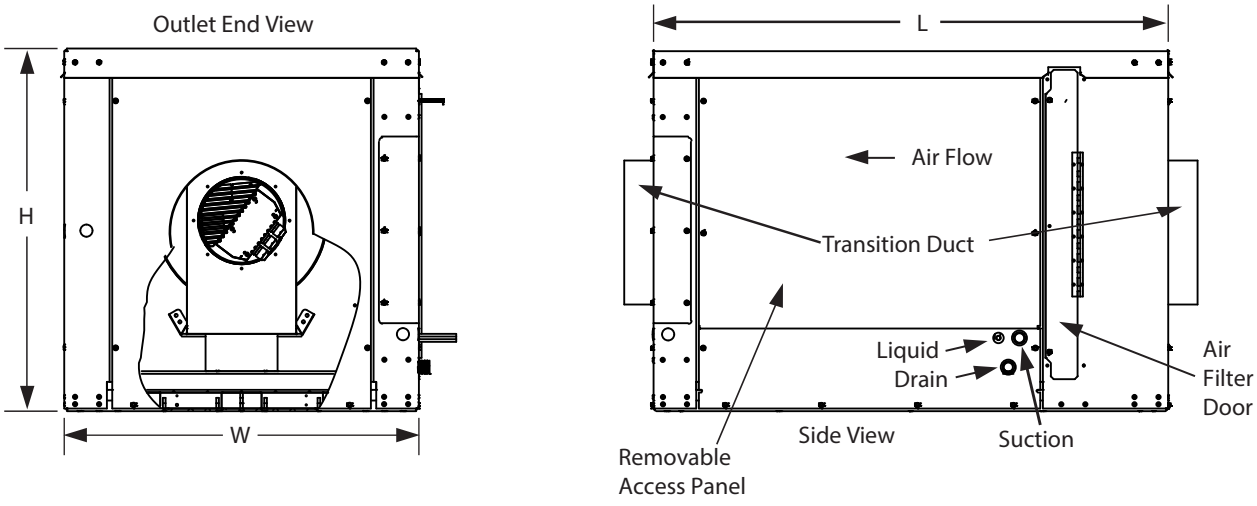
High Static / Air or Water Cooled Condensing Unit / Ducted Evaporator with Digital Controller

HS-EC SERIES FAN COIL SPECIFICATIONS

MODEL	CFM	AMPS 115 V	LENGTH	WIDTH	HEIGHT	LIQUID	SUCTION	DUCT	DRAIN	APPROX SHIP WT.
HS-EC 25	220	2.07	30″	17 1/4″	18 1/4″	3/8″	3/8″	8″	3/4″	60 lbs
HS-EC 31	380	2.07	30 1/8″	18 3/4″	25 3/8″	3/8″	3/8″	10″	3/4″	105 lbs
HS-EC 47	490	2.07	31 1/4″	22 3/4″	23 3/8″	3/8″	5/8″	10″	3/4″	120 lbs
HS-EC 66	750	4.6	31 1/4″	23	23 1/2″	3/8″	5/8″	10″	3/4″	125 lbs
HS-EC 87	810	4.6	36 1/8″	25 1/8″	25 1/8″	3/8″	5/8″	10″	3/4″	135 lbs
HS-EC 120	1400	436	43 5/8″	30 1/8″	30 1/8″	3/8″	7/8″	12″	3/4″	150 lbs
HS-EC 180	2000	3.64@230v	55 5/8″	31″	32 3/8″	3/8″	7/8″	14″	3/4″	165 lbs

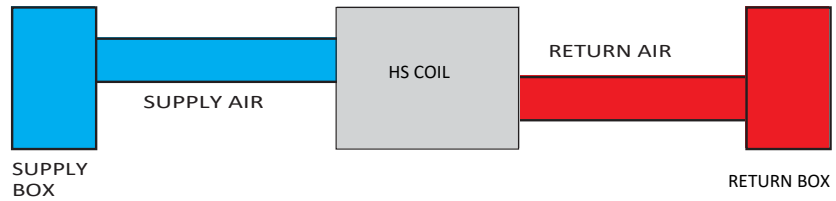
Due to continuing engineering improvements, specifications are subject to change without notice.
*BTUH is an estimated range based on specific operational criteria.
*Individual component part numbers are different than a system assembly number.
*Max Cubic Footage is an estimation assuming No glass, R13 insulation or more, interior ambient temperature of 80° or less, exterior ambient temperature of 95° or less.

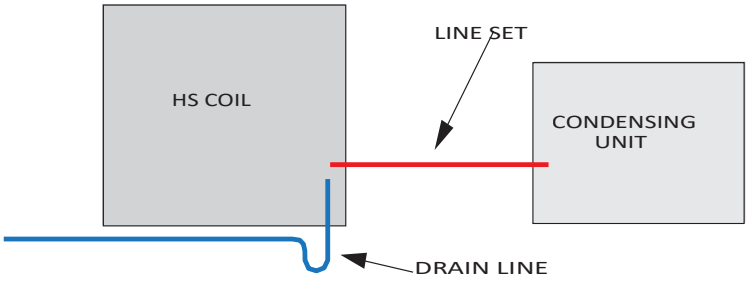
MOUNTING DIAGRAMS



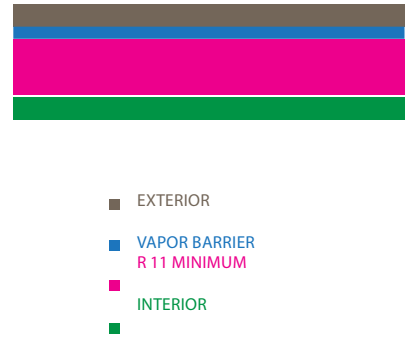
HS COOLING SYSTEM TYPICAL INSTALLATION

- Always plan for future maintenance and service. Units should have easy access or access panels. Grills, boxes, or racking nearest the evaporators should be removable.
- Standard Line Sets should be 50' or less. Over 50' an oil separator and suction line accumulator is required. Extended runs may require larger line sizes and 3 oz of oil must be added for every 10' feet over 35'. Insulate suction line, liquid line insulation is optional.
- Excessive number of turns in line set will cause refrigerant flow problems. This could cause early compressor failure. Suction line accumulators are recommended on all applications. Required if working lower than the normal 55°-65°F operating range from wine cellar.
- Drain line must flow with gravity to drain or pump.
- The system is controlled by a pump down control system. There is no control wiring between thermostat and condensing unit.
- The line connections at Fan Coil and Condensing Unit may not be the same as the required line sizes dictated for the system capacity.
- BTUH Capacity calculated at 17° TD, 38° ST, 55° Room
- The use of oversized condensing units can lead to poor wine room evaporator performance and possible system failure. When installing our wine room evaporator, it is recommended that condensing units be sized less than or equal to the evaporator capacity.
- USCS Cooling units are designed to minimize noise and vibration. To reduce and eliminate amplification of existing noise or vibration, extreme care must be taken during installation to identify contributing factors in the environment. Please refer to supplied installation instructions and use proper installation materials to minimize acoustic impact.
- Refer to complete installation instructions for additional information or contact our Tech Line at 562-728-5774





CEILING CONSTRUCTION



WALL CONSTRUCTION