

KYSOR/WARREN®

Refrigeration Systems



Multiple Compressor Series

CSS Compact Scroll System



Introducing

The CSS from Kysor//Warren – the compact low profile unit with full size refrigeration performance.

The compact scroll system is the ultimate solution for large refrigeration requirements when space requirements are critical. The CSS can be installed in traditional or non-traditional locations such as:

- ✓ Over walk-in coolers
- ✓ Traditional motor room
- ✓ Small back room or closet area



Strategically mounting the unit will not only optimize space, but will reduce piping runs. Shorter piping runs reduce cost of refrigerant and keep installation cost to a minimum.



Design Features

The CSS has a height of only 42" and a depth of 44.5". The length will vary depending on the number of compressors and circuits required. See Table 1 or consult with your Kysor//Warren representative for specific unit length.

All units were specifically designed for Copeland scroll compressors. They provide superior reliability. While the unit is capable of using scroll compressors up to 15 hp, we recommend that 6

hp be the largest as they generate lower noise levels and weigh less. All sizes of scroll compressors can be easily serviced or replaced.

The CSS can be configured with piping exiting out the rear or the bottom of the unit. Unit location determines which piping configuration is more practical.

Controls

A control box is attached to each side of the unit. The boxes are equipped with individual breakers and contactors to protect the compressors and individual fuses to protect the circuits. The unit is equipped with an electronic controller, along with the required relay boards to facilitate refrigeration.



Design Options

- ✓ Power: 208 or 460.
- ✓ Hertz: 50 or 60Hz.
- ✓ Defrost: hot gas, electric, off-cycle, or reverse air.
- ✓ Heat reclaim: water or comfort.
- ✓ Split condenser.
- ✓ Split suction.
- ✓ Mechanical sub-cooling.
- ✓ Electronic Stepper Regulator or Mechanical suction pressure regulators.

Advantages

- ✓ Compact design meets minimum space requirements.
- ✓ Components are accessible from front and rear.
- ✓ Perfect for non-traditional mounting locations.
- ✓ The CSS incorporates all of the technology available in our standard narrow rack into a compact design without compromising the quality.
- ✓ The CSS is Kysor//Warren's solution to an ever-increasing need for superior refrigeration performance in a low profile compact unit.



Table 1

Model	Length	Comp Qty Max	Circuit Qty Max	Receiver	Pump Down R404A	Pump Down R22
CSSB125	125	4 small or 3 large	10/11	10-3/4 x 60	141	162
CSSB140	140	5 small or 4 large	12/13	10-3/4 x 75	177	204
CSSB155	155	6 small or 4 large and 1 small	14/15	10-3/4 x 90	214	246
CSSD125	125	4 small or 3 large	10/11	10-3/4 x 60	141	162
CSSD140	140	5 small or 4 large	12/13	10-3/4 x 75	177	204
CSSD155	155	6 small or 4 large and 1 small	14/15	10-3/4 x 90	214	246
CSST125	125	4 small or 3 large	10/11	10-3/4 x 60	141	162
CSST140	140	5 small or 4 large	12/13	10-3/4 x 75	177	204
CSST155	155	6 small or 4 large and 1 small	14/15	10-3/4 x 90	214	246

Table Notes:

1. CSSD has circuits going **Down** through the bottom of the unit.
2. CSSB has circuits going out the rear at the **Bottom** of the unit.
3. CSST has circuits going out the rear at the **Top** of the unit.
4. Max circuit quantity is reduced by 1 for each suction group over the first one.
5. Circuit quantity will increase by 1 accordingly, when decreasing the maximum number of compressors. For example, with the 125 models you can have 4 small compressors with 10 circuits or 3 large (or small) compressors with 11 circuits.
6. Small scroll compressors are 6 hp and smaller. Large scroll compressors are 7-1/2 hp and larger.
7. Pump down shown is for 90° liquid at 90% full.
8. Unit height is 42” for all units.
9. Unit depth is 44-1/2” for all units. Depth does not include length of tubes protruding out the rear of the “B” and “T” units.

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