



# Liquid Refrigerant Subcooler

## Product Specifications

**Models For 1-1/2 Through 6-Ton Split Systems, Custom Commercial Package Unit Kits Available**

**All current models are rated for R-410A, R-32, R-454B**

**Subcooler units for R-22 are still available**

**Stages 1 – 3**

**Both standard and deluxe model available**

**Cased or uncased Units**

**Suction line sizes available: 5/8", 3/4", 7/8", 1 1/8"**

### PERFORMANCE

- Up to 40% BTU gain in capacity
- Up to 30% humidity reduction
- Up to 48% gain in SEER rating
- Special-patented copper coil heat exchangers
- Commercial grade refrigeration components used
- 20-50% reduction in energy consumption

### EASY TO INSTALL

- Absolutely NO maintenance required
- Subcooler units can be mounted vertically or horizontally
- Total of 4 brazed connections to install subcooler
- Liquid site glass plus low and high-side service taps installed
- Units come pressurized with dry nitrogen
- Tabs included for easy mounting
- Sporlan 3/8" SOF liquid line filter dryer, 6' of 3/8" x 1/2" Armaflex insulation included
- No electrical or controls to hook up

### BUILT TO LAST

- High-gloss baked-on finish
- Cased models have custom built aluminum boxes
- Boxes are riveted together for added strength
- Insulation for cased models are a fire-resistant spray foam with an RG rating
- Industrial grade rubber grommets are used at line set outlet points
- Uncased models: 3/4" wall Armaflex is used to insulate the subcooler
- No moving mechanical parts

### LIMITED WARRANTY

- Cased model subcoolers – 25-year warranty
- Uncased model – 25-year warranty on subcoolers, 5-year warranty on insulation



MODEL	CAPACITY	MAX LIQUID REFRIGERANT COOLING	BTU INCREASE	DEHUMIDIFICATION INCREASE	OPERATING DIMENSIONS WIDTH X DEPTH X HEIGHT inches (mm)	WEIGHT lbs. (kg)
<b>ST1SM410</b> "Iceman 1"	<i>Stage 1 Standard</i> 1.5 – 3.0 Tons	Up to 30 degree drop	Up to 20%	Up to 15%	19 3/4" x 6 1/4" x 6 1/2" (501.65 x 158.75 x 165.1)	10 lbs (4.53 kg)
<b>ST1DM410</b> "Iceman 2"	<i>Stage 1 Deluxe</i> 1.5 – 5.0 Tons	Up to 35 degree drop	Up to 25%	Up to 15%	22" x 8 1/4" x 6" (558.8 x 209.55 x 152.4)	13.2 lbs (5.98 kg)
<b>ST2SM410</b> "Eliminator 1"	<i>Stage 2 Standard</i> 1.5 – 3.0 Tons	Up to 40 degree drop	Up to 28%	Up to 20%	19 3/4" x 6 1/4" x 6 1/4" (501.65 x 158.75 x 158.75)	11.8 lbs (5.35 kg)
<b>ST2DM410</b> "Eliminator 2"	<i>Stage 2 Deluxe</i> 1.5 – 5.0 Tons	Up to 45 degree drop	Up to 30%	Up to 25%	20 1/4" x 8 1/4" x 6" (514.35 x 209.55 x 152.4)	17.5 lbs (7.93 kg)
<b>ST3SM410</b> "Dominator 1"	<i>Stage 3 Standard</i> 2.0 – 6.0 Tons	Up to 70 degree drop	Up to 40%	Up to 30%	18" x 14 1/4" x 8 1/2" (457.2 x 361.95 x 215.9)	32.6 lbs (14.78 kg)
<b>ST3DM410</b> "Dominator"	<i>Stage 3 Deluxe</i> 3.0 – 6.0 Tons	Up to 80+ degree drop	Up to 50%	Up to 40%	24" x 18.2" x 8 3/4" (609.6 x 469.9 x 222.25)	55.5 lbs (25.17 kg)