

# SUPERHEAT OPTIMIZER SYSTEM (SUPERHEAT SENSOR SYSTEM)

## 5-Deck Case Examples

Using R404 at -20°F SST based on 1760 BTU/FT

CASE 1760 BTU/FT	REQUIRED TONS	SPORLAN DIST. ORIFICE	SPORLAN TX VALVE	DISTRIBUTOR LINE SIZE
12FT. G6 5DK F.F.	3.17T	#10	EBSSE-6Z (ZP)	5/16"
8FT. G6 5DK F.F.	2.11T	#6	SBFSE-CZ (ZP)	5/16"
6FT. G6 5DK F.F.	1.58T	#4	SBFSE-BZ (ZP)	5/16"

### NB:

- 1) If using Danfoss valves, choose the valve and cartridge that gives you the required capacity for each case at the required saturated suction temperature for the application

## Suggested TXV's using R404 & keeprite coils

COILS	SENSORS	-25°F SST	-18°F SST
KUC 62	5/8"	SBFSE AZ (ZP)	SBFSE AZ (ZP)
KUC 82	5/8"	SBFSE BZ (ZP)	SBFSE BZ (ZP)
KUC 102	7/8"	SBFSE BZ (ZP)	SBFSE BZ (ZP)
KUC 123	7/8"	SBFSE CZ (ZP)	SBFSE CZ (ZP)
KUC 153	7/8"	SBFSE CZ (ZP)	SBFSE CZ (ZP)
KUC 204	1-1/8"	EBSSE 6Z (ZP)	EBSSE 6Z (ZP)
KUC 255	1-1/8"	EBSSE 6Z (ZP)	EBSSE 6Z (ZP)
KUC 306	1-3/8"	EBSSE 7 1/2 (ZP)	EBSSE 7 1/2 (ZP)

## Walk-in Box Evaporator

Walk-in box evaporator distributor orifices have been found to be satisfactory as factory installed and do not need to be replaced. If you have to correct the orifice for better operation, use the sizing procedure from the display case section.

- 1) For other manufacturers coils, the superheat sensor is sized to match the suction line size coming off the evaporator
- 2) For other manufacturers evaporators, use the same procedure as outlined for the door and multi-deck cases to size the expansion valve

If any questions should arise with the above instructions /specifications, contact:

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