

# SUPPLEMENTAL CHARGING INFORMATION

## R-454B SPLIT SYSTEM HEAT PUMP

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## REFRIGERANT CHARGING

### **WARNING:**

**Split System Heat Pumps are shipped charged with R-454B refrigerant and ready for installation. If repairs make it necessary for evacuation and charging, it should only be attempted by qualified trained personnel thoroughly familiar with this equipment. Under no circumstances should the owner attempt to install and/or service this equipment. Failure to comply with this warning could result in property damage, personal injury, or death.**

- After refrigerant line connections are completed, but BEFORE the unit's base valves are opened, it is required that you pressure test with an inert gas, leak check, and evacuate the indoor section and all line connections (using proper methods) before finalizing the full system refrigerant charge.

### **CAUTION:**

**The outdoor unit shall be isolated during pressure testing. If at any time the outdoor unit does need to be pressure tested then the pressure must never exceed 450 psig or the compressor may be damaged and the warranty voided.**

- When pressure testing the indoor unit and lineset the minimum pressure to be used shall be the maximum allowable pressure on the indoor unit's rating label.
- The refrigerant joints between the lineset and indoor unit, and any other field-made refrigerant joints inside the home or building shall be tightness tested. The test method shall have a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 200 psig. No leak shall be detected.
- Along with typical charging best practices, the following additional requirements shall be followed due to the mildly flammable refrigerant used in this system
  - Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
  - Cylinders shall be kept in an appropriate position according to the instructions.
  - Ensure that the refrigerating system is earthed prior to charging the system with refrigerant
  - Label the system when charging is complete (if not already).
  - Extreme care shall be taken not to overfill the refrigerating system.
- Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.
- Refer to the Quick Reference Data sheet for additional charging information for this unit with the approved Nordyne indoor units. For reference, these units are listed in the AHRI Directory with all approved combinations of indoor coils and units. Installing these outdoor units on systems that combine it with an indoor coil or unit not listed there, is not recommended. When approved combinations of indoor and outdoor units are installed, they should be set up to operate within the airflow and other operational parameters prescribed in all of the units provided instructions and technical specifications.

- Installation of this outdoor unit with other, non-listed indoor unit combinations may require different airflows, expansion devices, charge values and system setup from the instructions provided here and with this unit. Nordyne does not recommend the use of this product in unlisted combinations, and the system performance and efficiency values of unlisted unit combinations may be different than the listed product combinations.
- The refrigerant charge can be checked and adjusted through the service ports provided external to the outdoor unit. Use only gauge sets with hoses which have a "Schrader" depression device present to actuate the valve. A common suction port for heating mode charging is included and located on the compressor access panel above the outdoor unit service valves.
- An automatic high-pressure switch is factory-installed installed in these units and is located on the discharge line after the unit's compressor. This switch is designed to protect the system when very high pressures occur during abnormal conditions. Under normal conditions, the switch is closed. If the system pressure rises to 650 psig, then the switch will open and de-energize the contactor coil in the outdoor unit. The switch will close again once the liquid pressure decreases to 460 psig and allow the unit to restart after a 5 minute short cycle delay.
- A low-pressure switch is factory installed (certain models) and located internally on the suction line of the outdoor unit. The switch is designed to protect the compressor from a loss of charge by interrupting the thermostat inputs to the unit. If the suction pressure falls below 20 psig, the switch will open and de-energize the outdoor unit. The switch will close again when the suction pressure increases above 35 psig. When the switch opens and then closes, there is a 3 minute short cycling delay before the outdoor unit will energize. Under normal conditions the switch is closed.
- **NOTE:** After completing the charging of the system the final system charge shall be recorded in the appropriate location on the outdoor unit's rating plate.

### **Charging the Unit in AC mode**

**If the outdoor temperature is 65 degrees F or higher:**

After completing the refrigerant line connections, leak checking the system, and evacuating the indoor section and all line connections (using proper methods), perform the following steps:

1. Determine the recommended charge addition (if applicable) for the system being installed. This information is in the unit's QRD (Quick Reference Data sheet).
2. Calculate the amount of additional refrigerant needed for the line set length of the actual installation. This information is on the first page of the unit's QRD (Quick Reference Data sheet).
3. Weigh in the additional charge amounts determined by step 1 and 2 above.
4. Adjust the charge to match the superheat (for fixed orifice systems) or subcooling (for TXV systems). The charging tables are on the inside of the outdoor unit's electrical box cover panel. These tables provide superheat targets for fixed orifice systems and subcooling targets for TXV systems. The system should be charged so that the measured superheat/ subcooling are within 1 degree F of the target listed in the table.

#### **For fixed orifice systems:**

- If your measured superheat at the suction valve is **LESS THAN** the recommended superheat value in the table then **REMOVE** refrigerant.
- If your measured superheat at the suction valve is **GREATER THAN** the recommended superheat value in the table then **ADD** refrigerant.

#### **For TXV systems:**

- If your measured subcooling at the liquid valve is **LESS THAN** the recommended subcooling value in the table then **ADD** refrigerant.

- If your measured subcooling at the liquid valve is **GREATER THAN** the recommended subcooling value in the table then **REMOVE** refrigerant.

*If the outdoor temperature is between 35 degrees F and 65 degrees F:*

After completing the refrigerant line connections, leak checking the system, and evacuating the indoor section and all line connections (using proper methods), perform the following steps:

1. Determine the recommended charge addition (if applicable) for the system being installed. This information is in the unit's QRD (Quick Reference Data sheet).
2. Calculate the amount of additional refrigerant needed for the line set length of the actual installation. This information is on the first page of the unit's QRD (Quick Reference Data sheet).
3. Weigh in the additional charge amounts determined by step 1 and 2 above.
4. Block off the discharge of the outdoor fan. **NOTE:** One half of the unit should be covered corner to corner as shown in [Figure 1, \(page 3\)](#).
5. With the unit in cooling mode, Adjust the charge to match the superheat (for fixed orifice systems) or subcooling (for TXV systems). There are two different resources for doing this:
  - a.) The [chargecalculator.com](http://chargecalculator.com) website. This will walk you through the charging process step by step.
  - b.) The low ambient charging tables on the inside of the outdoor unit's electrical box cover panel. These tables provide superheat targets for fixed orifice systems and subcooling targets for TXV systems. The system should be charged so that the measured superheat/subcooling are within 1 degree F of the target listed in the table.

**For fixed orifice systems:**

- If your measured superheat at the suction valve is **LESS THAN** the recommended superheat value in the table then **REMOVE** refrigerant.
- If your measured superheat at the suction valve is **GREATER THAN** the recommended superheat value in the table then **ADD** refrigerant.

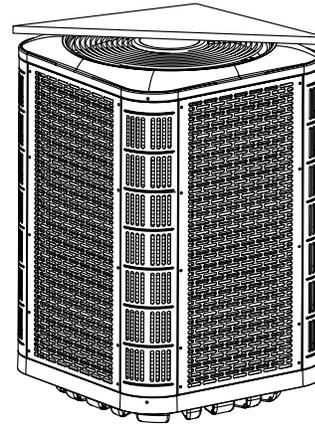
**For TXV systems:**

- If your measured subcooling at the liquid valve is **LESS THAN** the recommended subcooling value in the table then **ADD** refrigerant.
- If your measured subcooling at the liquid valve is **GREATER THAN** the recommended subcooling value in the table then **REMOVE** refrigerant

*If the outdoor temperature is below 35 degrees F:*

After completing the refrigerant line connections, leak checking the system, and evacuating the indoor section and all line connections (using proper methods), perform the following steps:

1. Determine the recommended charge addition (if applicable) for the system being installed. This information is in the unit's QRD (Quick Reference Data sheet).
2. Calculate the amount of additional refrigerant needed for the line set length of the actual installation. This information is on the first page of the unit's QRD (Quick Reference Data sheet).
3. Weigh in the additional charge amounts determined by steps 1 and 2 above.
4. Return to the system when the outdoor temperature is 35 degrees F or higher and follow the steps defined in step 4 of the "If the outdoor temperature is between 35 degrees and 65 degrees F" or "If the outdoor temperature is 65 degree F or higher" sections above as applicable.



**NOTE:** One half of the unit should be covered corner to corner.

**Figure 1. Blocked Off Outdoor Fan Discharge**

# SH4BE5M1SP18K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4BE5M-1SP18K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	3.4	3.3	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	5.2	5.0	4.7	4.2	3.7	3.1	3.0	3.0	-	-	-
	70	6.6	6.4	6.1	5.6	5.0	4.3	3.6	3.0	3.0	3.0	-
	75	7.9	7.7	7.3	6.8	6.1	5.4	4.6	3.8	3.0	3.0	3.0
	80	9.0	8.7	8.3	7.8	7.1	6.3	5.5	4.7	3.8	3.0	3.0
	85	9.8	9.6	9.2	8.6	8.0	7.2	6.4	5.5	4.6	3.7	3.0
	90	10.6	10.4	10.0	9.4	8.8	8.0	7.2	6.3	5.4	4.5	3.6
	95	11.3	11.1	10.7	10.2	9.6	<b>9.3</b>	8.0	7.1	6.2	5.3	4.4
	100	11.9	11.7	11.4	11.0	10.4	9.7	8.9	8.0	7.1	6.2	5.4
	105	12.5	12.4	12.1	11.7	11.2	10.5	9.8	9.0	8.1	7.3	6.4
	110	-	13.1	12.9	12.6	12.1	11.5	10.8	10.1	9.3	8.5	7.7
	115	-	-	13.8	13.5	13.1	12.6	12.0	11.4	10.6	9.9	9.2

SH4BE5M-1SP18K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	135.9	188.6
	65	136.6	204.2
	70	137.4	221.0
	75	138.2	239.0
	80	139.0	258.3
	85	139.8	278.8
	90	140.6	300.6
	95	141.4	323.6
	100	142.3	347.8
	105	143.1	373.3
	110	144.0	400.0
	115	144.8	427.9

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 680 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4BE5M-1SP18K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	40	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	45	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	50	4.2	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	55	5.6	4.4	3.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	60	7.3	5.9	4.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4BE5M1SP24K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4BE5M-1SP24K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	3.4	3.3	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	5.2	5.0	4.7	4.2	3.7	3.1	3.0	3.0	-	-	-
	70	6.6	6.4	6.1	5.6	5.0	4.3	3.6	3.0	3.0	3.0	-
	75	7.9	7.7	7.3	6.8	6.1	5.4	4.6	3.8	3.0	3.0	3.0
	80	9.0	8.7	8.3	7.8	7.1	6.3	5.5	4.7	3.8	3.0	3.0
	85	9.8	9.6	9.2	8.6	8.0	7.2	6.4	5.5	4.6	3.7	3.0
	90	10.6	10.4	10.0	9.4	8.8	8.0	7.2	6.3	5.4	4.5	3.6
	95	11.3	11.1	10.7	10.2	9.6	10.0	8.0	7.1	6.2	5.3	4.4
	100	11.9	11.7	11.4	11.0	10.4	9.7	8.9	8.0	7.1	6.2	5.4
	105	12.5	12.4	12.1	11.7	11.2	10.5	9.8	9.0	8.1	7.3	6.4
	110	-	13.1	12.9	12.6	12.1	11.5	10.8	10.1	9.3	8.5	7.7
	115	-	-	13.8	13.5	13.1	12.6	12.0	11.4	10.6	9.9	9.2

SH4BE5M-1SP24K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	130.4	191.8
	65	130.9	207.7
	70	131.5	225.0
	75	132.2	243.7
	80	133.0	263.9
	85	133.8	285.4
	90	134.8	308.4
	95	135.8	332.9
	100	137.0	358.7
	105	138.2	386.0
	110	139.5	414.7
	115	140.8	444.9

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 805 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4BE5M-1SP24K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	4.7	4.7	4.8	5.0	5.4	5.8	6.4	7.1	8.0	8.9	10.0
	40	4.1	3.8	3.7	3.7	3.8	4.1	4.4	4.9	5.5	6.3	7.1
	45	3.7	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.4	3.9	4.5
	50	3.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	55	3.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	60	4.5	3.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4BE5M1SP30K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4BE5M-1SP30K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	5.9	5.8	5.5	5.2	4.7	4.2	-	-	-	-	-
	65	7.7	7.5	7.2	6.7	6.2	5.6	4.9	4.2	-	-	-
	70	9.1	8.9	8.6	8.1	7.5	6.8	6.1	5.3	4.5	3.7	-
	75	10.4	10.2	9.8	9.3	8.6	7.9	7.1	6.3	5.4	4.6	3.8
	80	11.5	11.2	10.8	10.3	9.6	8.8	8.0	7.2	6.3	5.4	4.6
	85	12.3	12.1	11.7	11.1	10.5	9.7	8.9	8.0	7.1	6.2	5.3
	90	13.1	12.9	12.5	11.9	11.3	10.5	9.7	8.8	7.9	7.0	6.1
	95	13.8	13.6	13.2	12.7	12.1	11.2	10.5	9.6	8.7	7.8	6.9
	100	14.4	14.2	13.9	13.5	12.9	12.2	11.4	10.5	9.6	8.7	7.9
	105	15.0	14.9	14.6	14.2	13.7	13.0	12.3	11.5	10.6	9.8	8.9
	110	-	15.6	15.4	15.1	14.6	14.0	13.3	12.6	11.8	11.0	10.2
	115	-	-	16.3	16.0	15.6	15.1	14.5	13.9	13.1	12.4	11.7

SH4BE5M-1SP30K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	126.4	196.8
	65	127.5	212.9
	70	128.6	230.4
	75	129.7	249.4
	80	130.7	269.9
	85	131.8	291.9
	90	132.9	315.3
	95	133.9	340.2
	100	135.0	366.5
	105	136.0	394.3
	110	137.1	423.6
	115	138.1	454.4

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 965 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4BE5M-1SP30K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	4.6	4.7	4.9	5.0	5.2	5.3	5.4	5.6	5.7	5.9	6.0
	40	5.3	5.3	5.3	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.5
	45	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.4	5.3	5.2
	50	7.4	7.2	7.0	6.7	6.5	6.3	6.1	5.8	5.6	5.4	5.2
	55	8.9	8.6	8.2	7.9	7.5	7.2	6.9	6.5	6.2	5.9	5.5
	60	10.8	10.3	9.8	9.3	8.9	8.4	8.0	7.5	7.0	6.6	6.1

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4BE5M1SP36K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4BE5M-1SP36K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	5.6	5.5	5.2	4.9	4.4	3.9	-	-	-	-	-
	65	7.4	7.2	6.9	6.4	5.9	5.3	4.6	3.9	-	-	-
	70	8.8	8.6	8.3	7.8	7.2	6.5	5.8	5.0	4.2	3.4	-
	75	10.1	9.9	9.5	9.0	8.3	7.6	6.8	6.0	5.1	4.3	3.5
	80	11.2	10.9	10.5	10.0	9.3	8.5	7.7	6.9	6.0	5.1	4.3
	85	12.0	11.8	11.4	10.8	10.2	9.4	8.6	7.7	6.8	5.9	5.0
	90	12.8	12.6	12.2	11.6	11.0	10.2	9.4	8.5	7.6	6.7	5.8
	95	13.5	13.3	12.9	12.4	11.8	<b>10.4</b>	10.2	9.3	8.4	7.5	6.6
	100	14.1	13.9	13.6	13.2	12.6	11.9	11.1	10.2	9.3	8.4	7.6
	105	14.7	14.6	14.3	13.9	13.4	12.7	12.0	11.2	10.3	9.5	8.6
	110	-	15.3	15.1	14.8	14.3	13.7	13.0	12.3	11.5	10.7	9.9
	115	-	-	16.0	15.7	15.3	14.8	14.2	13.6	12.8	12.1	11.4

SH4BE5M-1SP36K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	132.4	199.6
	65	133.3	216.8
	70	134.1	235.3
	75	135.0	255.3
	80	135.8	276.5
	85	136.7	299.2
	90	137.5	323.3
	95	138.4	348.7
	100	139.3	375.5
	105	140.2	403.7
	110	141.1	433.2
	115	141.9	464.1

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 1160 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4BE5M-1SP36K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	10.4	10.3	10.2	10.2	10.1	10.0	10.0	9.9	9.8	9.8	9.7
	40	10.5	10.2	9.8	9.5	9.1	8.8	8.4	8.1	7.8	7.4	7.1
	45	11.0	10.4	9.8	9.2	8.5	7.9	7.3	6.7	6.1	5.5	4.8
	50	12.0	11.1	10.2	9.3	8.4	7.5	6.6	5.7	4.8	3.9	3.0
	55	13.3	12.1	11.0	9.8	8.6	7.4	6.3	5.1	3.9	3.0	3.0
	60	15.1	13.6	12.2	10.7	9.3	7.8	6.4	4.9	3.5	3.0	3.0

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4BE5M1SP42K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4BE5M-1SP42K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	5.1	4.2	3.4	3.0	3.1	4.0	-	-	-	-	-
	65	7.6	6.7	5.8	5.2	5.0	5.6	7.0	9.5	-	-	-
	70	9.6	8.7	7.7	7.0	6.6	6.9	7.9	10.0	13.4	18.1	-
	75	11.2	10.3	9.3	8.4	7.9	7.9	8.7	10.4	13.2	17.5	23.3
	80	12.3	11.5	10.5	9.6	8.9	8.7	9.2	10.5	13.0	16.7	21.9
	85	13.1	12.4	11.5	10.5	9.8	9.4	9.6	10.6	12.7	15.9	20.6
	90	13.5	13.0	12.2	11.2	10.4	9.9	9.9	10.7	12.3	15.2	19.3
	95	13.7	13.4	12.7	11.8	11.0	10.1	10.2	10.7	12.0	14.5	18.2
	100	13.6	13.5	13.0	12.2	11.4	10.7	10.5	10.7	11.8	13.9	17.2
	105	13.4	13.6	13.2	12.6	11.8	11.1	10.8	10.9	11.7	13.5	16.4
	110	-	13.5	13.4	12.9	12.2	11.6	11.2	11.2	11.8	13.3	15.9
	115	-	-	13.5	13.3	12.7	12.1	11.7	11.6	12.1	13.3	15.6

SH4BE5M-1SP42K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	133.8	197.6
	65	133.8	213.5
	70	134.0	230.7
	75	134.2	249.3
	80	134.6	269.2
	85	135.1	290.5
	90	135.8	313.1
	95	136.6	337.0
	100	137.5	362.3
	105	138.6	389.0
	110	139.8	417.0
	115	141.1	446.3

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 1385 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4BE5M-1SP42K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	15.4	15.4	15.5	15.8	16.1	16.6	17.2	17.9	18.7	19.7	20.7
	40	14.8	14.6	14.5	14.5	14.6	14.8	15.2	15.7	16.3	17.0	17.9
	45	14.5	14.0	13.7	13.5	13.4	13.4	13.5	13.8	14.2	14.7	15.3
	50	14.4	13.8	13.2	12.7	12.4	12.2	12.1	12.2	12.3	12.6	13.0
	55	14.7	13.8	13.0	12.3	11.8	11.4	11.1	10.9	10.8	10.9	11.0
	60	15.3	14.1	13.1	12.2	11.5	10.8	10.3	9.9	9.6	9.4	9.3

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4BE5M1SP48K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4BE5M-1SP48K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	4.4	4.3	4.0	3.7	3.2	3.0	-	-	-	-	-
	65	6.2	6.0	5.7	5.2	4.7	4.1	3.4	3.0	-	-	-
	70	7.6	7.4	7.1	6.6	6.0	5.3	4.6	3.8	3.0	3.0	-
	75	8.9	8.7	8.3	7.8	7.1	6.4	5.6	4.8	3.9	3.1	3.0
	80	10.0	9.7	9.3	8.8	8.1	7.3	6.5	5.7	4.8	3.9	3.1
	85	10.8	10.6	10.2	9.6	9.0	8.2	7.4	6.5	5.6	4.7	3.8
	90	11.6	11.4	11.0	10.4	9.8	9.0	8.2	7.3	6.4	5.5	4.6
	95	12.3	12.1	11.7	11.2	10.6	9.9	9.0	8.1	7.2	6.3	5.4
	100	12.9	12.7	12.4	12.0	11.4	10.7	9.9	9.0	8.1	7.2	6.4
	105	13.5	13.4	13.1	12.7	12.2	11.5	10.8	10.0	9.1	8.3	7.4
	110	-	14.1	13.9	13.6	13.1	12.5	11.8	11.1	10.3	9.5	8.7
	115	-	-	14.8	14.5	14.1	13.6	13.0	12.4	11.6	10.9	10.2

SH4BE5M-1SP48K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	129.9	199.5
	65	130.7	215.8
	70	131.4	233.4
	75	132.2	252.3
	80	132.9	272.7
	85	133.7	294.3
	90	134.4	317.3
	95	135.2	341.7
	100	135.9	367.5
	105	136.7	394.5
	110	137.4	423.0
	115	138.2	452.8

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 1505 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4BE5M-1SP48K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	9.6	9.5	9.5	9.4	9.3	9.3	9.2	9.1	9.1	9.0	9.0
	40	9.8	9.4	9.1	8.7	8.4	8.0	7.7	7.3	7.0	6.7	6.3
	45	10.3	9.7	9.0	8.4	7.8	7.2	6.6	5.9	5.3	4.7	4.1
	50	11.2	10.3	9.4	8.5	7.6	6.7	5.8	4.9	4.0	3.2	3.0
	55	12.6	11.4	10.2	9.0	7.9	6.7	5.5	4.3	3.2	3.0	3.0
	60	14.3	12.9	11.4	10.0	8.5	7.1	5.6	4.2	3.0	3.0	3.0

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4BE5M2SX60K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4BE5M-2SX60K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	3.0	3.0	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	-	-	-
	70	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	-
	75	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	80	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	85	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	90	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	95	3.2	3.2	3.1	3.1	3.0	<b>3.6</b>	3.0	3.0	3.0	3.0	3.0
	100	3.8	3.7	3.7	3.6	3.5	3.4	3.3	3.2	3.0	3.0	3.0
	105	4.5	4.5	4.4	4.3	4.2	4.1	4.0	3.8	3.7	3.5	3.4
	110	-	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
	115	-	-	6.8	6.7	6.6	6.4	6.3	6.1	5.9	5.7	5.4

SH4BE5M-2SX60K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
		OUTDOOR DRY-BULB TEMPERATURE (°F)	
60	122.5	201.5	
65	124.1	218.4	
70	125.7	236.4	
75	127.1	255.6	
80	128.5	276.0	
85	129.7	297.6	
90	130.9	320.4	
95	132.0	344.4	
100	133.1	369.5	
105	134.0	395.9	
110	134.9	423.4	
115	135.6	452.1	

- Subcooling tolerance is ± 1°F
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 2010 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4BE5M-2SX60K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	40	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	45	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	50	4.2	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	55	5.6	4.4	3.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	60	7.3	5.9	4.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is ± 1°F
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4ME5M1SP24K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4ME5M-1SP24K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	4.1	3.2	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	6.6	5.7	4.8	4.2	4.0	4.6	6.0	8.5	-	-	-
	70	8.6	7.7	6.7	6.0	5.6	5.9	6.9	9.0	12.4	17.1	-
	75	10.2	9.3	8.3	7.4	6.9	6.9	7.7	9.4	12.2	16.5	22.3
	80	11.3	10.5	9.5	8.6	7.9	7.7	8.2	9.5	12.0	15.7	20.9
	85	12.1	11.4	10.5	9.5	8.8	8.4	8.6	9.6	11.7	14.9	19.6
	90	12.5	12.0	11.2	10.2	9.4	8.9	8.9	9.7	11.3	14.2	18.3
	95	12.7	12.4	11.7	10.8	10.0	<b>8.9</b>	9.2	9.7	11.0	13.5	17.2
	100	12.6	12.5	12.0	11.2	10.4	9.7	9.5	9.7	10.8	12.9	16.2
	105	12.4	12.6	12.2	11.6	10.8	10.1	9.8	9.9	10.7	12.5	15.4
	110	-	12.5	12.4	11.9	11.2	10.6	10.2	10.2	10.8	12.3	14.9
	115	-	-	12.5	12.3	11.7	11.1	10.7	10.6	11.1	12.3	14.6

SH4ME5M-1SP24K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	131.4	193.3
	65	132.3	210.6
	70	133.3	228.8
	75	134.2	248.1
	80	135.1	268.4
	85	136.0	289.7
	90	136.8	312.0
	95	137.6	335.3
	100	138.4	359.7
	105	139.1	385.0
	110	139.9	411.4
	115	140.5	438.8

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 885 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4ME5M-1SP24K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	3.6	3.7	3.7	3.6	3.5	3.3	3.1	3.0	3.0	3.0	3.0
	40	4.2	4.2	4.1	3.9	3.7	3.4	3.1	3.0	3.0	3.0	3.0
	45	5.1	5.0	4.8	4.5	4.2	3.8	3.4	3.0	3.0	3.0	3.0
	50	6.4	6.1	5.8	5.5	5.1	4.6	4.0	3.4	3.0	3.0	3.0
	55	8.0	7.6	7.2	6.8	6.3	5.7	5.0	4.3	3.5	3.0	3.0
	60	9.9	9.4	8.9	8.4	7.8	7.1	6.3	5.5	4.6	3.7	3.0

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4ME5M1SP30K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4ME5M-1SP30K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	4.1	3.2	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	6.6	5.7	4.8	4.2	4.0	4.6	6.0	8.5	-	-	-
	70	8.6	7.7	6.7	6.0	5.6	5.9	6.9	9.0	12.4	17.1	-
	75	10.2	9.3	8.3	7.4	6.9	6.9	7.7	9.4	12.2	16.5	22.3
	80	11.3	10.5	9.5	8.6	7.9	7.7	8.2	9.5	12.0	15.7	20.9
	85	12.1	11.4	10.5	9.5	8.8	8.4	8.6	9.6	11.7	14.9	19.6
	90	12.5	12.0	11.2	10.2	9.4	8.9	8.9	9.7	11.3	14.2	18.3
	95	12.7	12.4	11.7	10.8	10.0	<b>10.1</b>	9.2	9.7	11.0	13.5	17.2
	100	12.6	12.5	12.0	11.2	10.4	9.7	9.5	9.7	10.8	12.9	16.2
	105	12.4	12.6	12.2	11.6	10.8	10.1	9.8	9.9	10.7	12.5	15.4
	110	-	12.5	12.4	11.9	11.2	10.6	10.2	10.2	10.8	12.3	14.9
	115	-	-	12.5	12.3	11.7	11.1	10.7	10.6	11.1	12.3	14.6

SH4ME5M-1SP30K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	131.1	197.7
	65	132.3	214.9
	70	133.5	233.3
	75	134.6	252.9
	80	135.7	273.6
	85	136.6	295.6
	90	137.5	318.7
	95	138.3	343.0
	100	139.0	368.6
	105	139.6	395.3
	110	140.2	423.2
	115	140.6	452.3

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 1095 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4ME5M-1SP30K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	8.6	8.7	8.9	9.0	9.2	9.3	9.4	9.6	9.7	9.9	10.0
	40	9.3	9.3	9.3	9.3	9.3	9.3	9.4	9.4	9.4	9.4	9.5
	45	10.2	10.1	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2
	50	11.4	11.2	11.0	10.7	10.5	10.3	10.1	9.8	9.6	9.4	9.2
	55	12.9	12.6	12.2	11.9	11.5	11.2	10.9	10.5	10.2	9.9	9.5
	60	14.8	14.3	13.8	13.3	12.9	12.4	12.0	11.5	11.0	10.6	10.1

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is  $\pm 1^\circ\text{F}$

# SH4ME5M1SP36K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4ME5M-1SP36K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	3.1	3.0	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	5.6	4.7	3.8	3.2	3.0	3.6	5.0	7.5	-	-	-
	70	7.6	6.7	5.7	5.0	4.6	4.9	5.9	8.0	11.4	16.1	-
	75	9.2	8.3	7.3	6.4	5.9	5.9	6.7	8.4	11.2	15.5	21.3
	80	10.3	9.5	8.5	7.6	6.9	6.7	7.2	8.5	11.0	14.7	19.9
	85	11.1	10.4	9.5	8.5	7.8	7.4	7.6	8.6	10.7	13.9	18.6
	90	11.5	11.0	10.2	9.2	8.4	7.9	7.9	8.7	10.3	13.2	17.3
	95	11.7	11.4	10.7	9.8	9.0	<b>9.0</b>	8.2	8.7	10.0	12.5	16.2
	100	11.6	11.5	11.0	10.2	9.4	8.7	8.5	8.7	9.8	11.9	15.2
	105	11.4	11.6	11.2	10.6	9.8	9.1	8.8	8.9	9.7	11.5	14.4
	110	-	11.5	11.4	10.9	10.2	9.6	9.2	9.2	9.8	11.3	13.9
	115	-	-	11.5	11.3	10.7	10.1	9.7	9.6	10.1	11.3	13.6

SH4ME5M-1SP36K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	126.1	194.0
	65	127.0	211.4
	70	128.0	229.9
	75	128.9	249.4
	80	129.9	269.9
	85	130.9	291.5
	90	131.8	314.1
	95	132.8	337.8
	100	133.7	362.5
	105	134.7	388.2
	110	135.7	414.9
	115	136.6	442.7

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 1100 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4ME5M-1SP36K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	3.8	3.9	3.9	3.8	3.7	3.5	3.3	3.0	3.0	3.0	3.0
	40	4.4	4.4	4.3	4.1	3.9	3.6	3.3	3.0	3.0	3.0	3.0
	45	5.3	5.2	5.0	4.7	4.4	4.0	3.6	3.1	3.0	3.0	3.0
	50	6.6	6.3	6.0	5.7	5.3	4.8	4.2	3.6	3.0	3.0	3.0
	55	8.2	7.8	7.4	7.0	6.5	5.9	5.2	4.5	3.7	3.0	3.0
	60	10.1	9.6	9.1	8.6	8.0	7.3	6.5	5.7	4.8	3.9	3.0

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4ME5M1SP42K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4ME5M-1SP42K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	3.6	3.0	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	6.1	5.2	4.3	3.7	3.5	4.1	5.5	8.0	-	-	-
	70	8.1	7.2	6.2	5.5	5.1	5.4	6.4	8.5	11.9	16.6	-
	75	9.7	8.8	7.8	6.9	6.4	6.4	7.2	8.9	11.7	16.0	21.8
	80	10.8	10.0	9.0	8.1	7.4	7.2	7.7	9.0	11.5	15.2	20.4
	85	11.6	10.9	10.0	9.0	8.3	7.9	8.1	9.1	11.2	14.4	19.1
	90	12.0	11.5	10.7	9.7	8.9	8.4	8.4	9.2	10.8	13.7	17.8
	95	12.2	11.9	11.2	10.3	9.5	<b>9.8</b>	8.7	9.2	10.5	13.0	16.7
	100	12.1	12.0	11.5	10.7	9.9	9.2	9.0	9.2	10.3	12.4	15.7
	105	11.9	12.1	11.7	11.1	10.3	9.6	9.3	9.4	10.2	12.0	14.9
	110	-	12.0	11.9	11.4	10.7	10.1	9.7	9.7	10.3	11.8	14.4
	115	-	-	12.0	11.8	11.2	10.6	10.2	10.1	10.6	11.8	14.1

SH4ME5M-1SP42K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	128.7	190.0
	65	129.9	207.0
	70	131.0	225.1
	75	132.2	244.4
	80	133.3	264.8
	85	134.3	286.2
	90	135.3	308.9
	95	136.3	332.6
	100	137.2	357.4
	105	138.1	383.4
	110	139.0	410.5
	115	139.8	438.7

- Subcooling tolerance is ± 1°F
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 1335 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4ME5M-1SP42K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	10.3	10.2	10.2	10.1	10.0	10.0	9.9	9.8	9.8	9.7	9.7
	40	10.5	10.1	9.8	9.4	9.1	8.7	8.4	8.0	7.7	7.4	7.0
	45	11.0	10.4	9.7	9.1	8.5	7.9	7.3	6.6	6.0	5.4	4.8
	50	11.9	11.0	10.1	9.2	8.3	7.4	6.5	5.6	4.7	3.9	3.0
	55	13.3	12.1	10.9	9.7	8.6	7.4	6.2	5.0	3.9	3.0	3.0
	60	15.0	13.6	12.1	10.7	9.2	7.8	6.3	4.9	3.4	3.0	3.0

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is ± 1°F
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4ME5M1SP48K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4ME5M-1SP48K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	3.0	3.0	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	5.5	4.6	3.7	3.1	3.0	3.5	4.9	7.4	-	-	-
	70	7.5	6.6	5.6	4.9	4.5	4.8	5.8	7.9	11.3	16.0	-
	75	9.1	8.2	7.2	6.3	5.8	5.8	6.6	8.3	11.1	15.4	21.2
	80	10.2	9.4	8.4	7.5	6.8	6.6	7.1	8.4	10.9	14.6	19.8
	85	11.0	10.3	9.4	8.4	7.7	7.3	7.5	8.5	10.6	13.8	18.5
	90	11.4	10.9	10.1	9.1	8.3	7.8	7.8	8.6	10.2	13.1	17.2
	95	11.6	11.3	10.6	9.7	8.9	7.5	8.1	8.6	9.9	12.4	16.1
	100	11.5	11.4	10.9	10.1	9.3	8.6	8.4	8.6	9.7	11.8	15.1
	105	11.3	11.5	11.1	10.5	9.7	9.0	8.7	8.8	9.6	11.4	14.3
	110	-	11.4	11.3	10.8	10.1	9.5	9.1	9.1	9.7	11.2	13.8
	115	-	-	11.4	11.2	10.6	10.0	9.6	9.5	10.0	11.2	13.5

SH4ME5M-1SP48K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	120.7	193.1
	65	122.3	210.8
	70	123.9	229.6
	75	125.3	249.4
	80	126.7	270.3
	85	128.0	292.2
	90	129.2	315.2
	95	130.3	339.3
	100	131.4	364.4
	105	132.4	390.6
	110	133.3	417.9
	115	134.2	446.2

- Subcooling tolerance is  $\pm 1^\circ\text{F}$
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 1395 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4ME5M-1SP48K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	8.3	8.4	8.6	8.7	8.9	9.0	9.1	9.3	9.4	9.6	9.7
	40	9.0	9.0	9.0	9.0	9.0	9.0	9.1	9.1	9.1	9.1	9.2
	45	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.9
	50	11.1	10.9	10.7	10.4	10.2	10.0	9.8	9.5	9.3	9.1	8.9
	55	12.6	12.3	11.9	11.6	11.2	10.9	10.6	10.2	9.9	9.6	9.2
	60	14.5	14.0	13.5	13.0	12.6	12.1	11.7	11.2	10.7	10.3	9.8

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is  $\pm 1^\circ\text{F}$

# SH4BF5M2SX24K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4BF5M-2SX24K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	6.9	6.8	6.5	6.2	5.7	5.2	-	-	-	-	-
	65	8.7	8.5	8.2	7.7	7.2	6.6	5.9	5.2	-	-	-
	70	10.1	9.9	9.6	9.1	8.5	7.8	7.1	6.3	5.5	4.7	-
	75	11.4	11.2	10.8	10.3	9.6	8.9	8.1	7.3	6.4	5.6	4.8
	80	12.5	12.2	11.8	11.3	10.6	9.8	9.0	8.2	7.3	6.4	5.6
	85	13.3	13.1	12.7	12.1	11.5	10.7	9.9	9.0	8.1	7.2	6.3
	90	14.1	13.9	13.5	12.9	12.3	11.5	10.7	9.8	8.9	8.0	7.1
	95	14.8	14.6	14.2	13.7	13.1	12.4	11.5	10.6	9.7	8.8	7.9
	100	15.4	15.2	14.9	14.5	13.9	13.2	12.4	11.5	10.6	9.7	8.9
	105	16.0	15.9	15.6	15.2	14.7	14.0	13.3	12.5	11.6	10.8	9.9
	110	-	16.6	16.4	16.1	15.6	15.0	14.3	13.6	12.8	12.0	11.2
	115	-	-	17.3	17.0	16.6	16.1	15.5	14.9	14.1	13.4	12.7

SH4BF5M-2SX24K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
		OUTDOOR DRY-BULB TEMPERATURE (°F)	60
65	139.7	211.5	
70	140.1	228.9	
75	140.6	247.7	
80	141.1	268.0	
85	141.8	289.7	
90	142.5	312.8	
95	143.3	337.4	
100	144.2	363.4	
105	145.1	390.9	
110	146.1	419.8	
115	147.2	450.1	

- Subcooling tolerance is ± 1°F
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 855 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4BF5M-2SX24K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.6	6.7	6.9	7.0
	40	6.3	6.3	6.3	6.3	6.3	6.3	6.4	6.4	6.4	6.4	6.5
	45	7.2	7.1	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2
	50	8.4	8.2	8.0	7.7	7.5	7.3	7.1	6.8	6.6	6.4	6.2
	55	9.9	9.6	9.2	8.9	8.5	8.2	7.9	7.5	7.2	6.9	6.5
	60	11.8	11.3	10.8	10.3	9.9	9.4	9.0	8.5	8.0	7.6	7.1

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is ± 1°F

# SH4BF5M2SX36K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4BF5M-2SX36K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	4.4	4.3	4.0	3.7	3.2	3.0	-	-	-	-	-
	65	6.2	6.0	5.7	5.2	4.7	4.1	3.4	3.0	-	-	-
	70	7.6	7.4	7.1	6.6	6.0	5.3	4.6	3.8	3.0	3.0	-
	75	8.9	8.7	8.3	7.8	7.1	6.4	5.6	4.8	3.9	3.1	3.0
	80	10.0	9.7	9.3	8.8	8.1	7.3	6.5	5.7	4.8	3.9	3.1
	85	10.8	10.6	10.2	9.6	9.0	8.2	7.4	6.5	5.6	4.7	3.8
	90	11.6	11.4	11.0	10.4	9.8	9.0	8.2	7.3	6.4	5.5	4.6
	95	12.3	12.1	11.7	11.2	10.6	9.5	9.0	8.1	7.2	6.3	5.4
	100	12.9	12.7	12.4	12.0	11.4	10.7	9.9	9.0	8.1	7.2	6.4
	105	13.5	13.4	13.1	12.7	12.2	11.5	10.8	10.0	9.1	8.3	7.4
	110	-	14.1	13.9	13.6	13.1	12.5	11.8	11.1	10.3	9.5	8.7
	115	-	-	14.8	14.5	14.1	13.6	13.0	12.4	11.6	10.9	10.2

SH4BF5M-2SX36K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
		OUTDOOR DRY-BULB TEMPERATURE (°F)	60
65	134.5	226.6	
70	135.1	245.3	
75	135.9	265.2	
80	136.6	286.3	
85	137.4	308.8	
90	138.2	332.5	
95	139.1	357.5	
100	139.9	383.7	
105	140.8	411.3	
110	141.8	440.1	
115	142.7	470.1	

- Subcooling tolerance is ± 1°F
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 1265 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4BF5M-2SX36K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	7.6	7.5	7.5	7.4	7.3	7.3	7.2	7.1	7.1	7.0	7.0
	40	7.8	7.4	7.1	6.7	6.4	6.0	5.7	5.3	5.0	4.7	4.3
	45	8.3	7.7	7.0	6.4	5.8	5.2	4.6	3.9	3.3	3.0	3.0
	50	9.2	8.3	7.4	6.5	5.6	4.7	3.8	3.0	3.0	3.0	3.0
	55	10.6	9.4	8.2	7.0	5.9	4.7	3.5	3.0	3.0	3.0	3.0
	60	12.3	10.9	9.4	8.0	6.5	5.1	3.6	3.0	3.0	3.0	3.0

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is ± 1°F
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4BF5M2SX48K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4BF5M-2SX48K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	3.0	3.0	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	-	-	-
	70	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	-
	75	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	80	3.2	3.2	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	85	3.6	3.6	3.6	3.5	3.4	3.3	3.2	3.2	3.2	3.2	3.4
	90	4.1	4.1	4.0	4.0	3.9	3.8	3.8	3.8	3.8	4.0	4.2
	95	4.5	4.5	4.5	4.4	4.4	<b>4.6</b>	4.4	4.4	4.5	4.7	5.0
	100	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.0	5.2	5.4	5.8
	105	5.2	5.2	5.2	5.2	5.3	5.3	5.4	5.5	5.8	6.1	6.5
	110	-	5.5	5.5	5.5	5.6	5.6	5.8	6.0	6.3	6.7	7.2
	115	-	-	5.6	5.7	5.7	5.9	6.1	6.3	6.7	7.1	7.7

SH4BF5M-2SX48K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
		OUTDOOR DRY-BULB TEMPERATURE (°F)	
60	125.7	204.6	
65	127.1	220.9	
70	128.3	238.6	
75	129.5	257.5	
80	130.5	277.6	
85	131.5	299.0	
90	132.4	321.7	
95	133.2	345.7	
100	133.9	370.9	
105	134.5	397.3	
110	135.0	425.0	
115	135.4	454.0	

- Subcooling tolerance is ± 1°F
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 1530 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4BF5M-2SX48K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	40	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	45	3.8	3.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	50	4.7	3.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	55	6.1	4.9	3.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	60	7.8	6.4	4.9	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is ± 1°F
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

# SH4BF5M2SX60K

**COOLING CHARGING TABLE**  
(SUBCOOLING TARGETS FOR SYSTEMS WITH TXV INDOOR METERING DEVICES)

**ESTIMATED PRESSURES**  
(TXV IN COOLING MODE)

SH4BF5M-2SX60K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	3.0	3.0	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	-	-	-
	70	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	-
	75	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	80	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	85	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	90	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	95	3.2	3.2	3.1	3.1	3.0	<b>3.6</b>	3.0	3.0	3.0	3.0	3.0
	100	3.8	3.7	3.7	3.6	3.5	3.4	3.3	3.2	3.0	3.0	3.0
	105	4.5	4.5	4.4	4.3	4.2	4.1	4.0	3.8	3.7	3.5	3.4
	110	-	5.5	5.4	5.3	5.2	5.1	4.9	4.8	4.6	4.4	4.2
	115	-	-	6.8	6.7	6.6	6.4	6.3	6.1	5.9	5.7	5.4

SH4BF5M-2SX60K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
		OUTDOOR DRY-BULB TEMPERATURE (°F)	
60	122.5	201.5	
65	124.1	218.4	
70	125.7	236.4	
75	127.1	255.6	
80	128.5	276.0	
85	129.7	297.6	
90	130.9	320.4	
95	132.0	344.4	
100	133.1	369.5	
105	134.0	395.9	
110	134.9	423.4	
115	135.6	452.1	

- Subcooling tolerance is ± 1°F
- Boxed data point is the performance rated condition
- The conditions for the refrigerant pressure data is 80 deg F dry bulb, 67 deg F wet bulb indoor and 25 ft line set
- The data provided is from a system operating at 2010 SCFM
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

**LOW AMBIENT CHARGING TABLE**  
(COOLING MODE WITH HALF BLOCKED FAN & TXV COOLING MODE METERING DEVICE)

SH4BF5M-2SX60K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	35	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	40	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	45	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	50	4.2	3.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	55	5.6	4.4	3.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	60	7.3	5.9	4.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

NOTE: THIS TABLE IS FOR SYSTEMS OPERATING IN COOLING MODE WITH THE FAN DISCHARGE BLOCKED OFF. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

- Subcooling tolerance is ± 1°F
- Charging the system at conditions in the dark gray area of the chart is less accurate and you may need to confirm the charge when the system is operating at a different condition.

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