

SUPPLEMENTAL CHARGING INFORMATION

SPLIT SYSTEM AIR CONDITIONERS

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ABOUT THIS DOCUMENT

This Supplemental Charging Information document contains the charging charts that are also applied to the units themselves and also estimated refrigerant pressures.

Estimated refrigerant pressures are only for troubleshooting purposes and should not be used to charge the system. See the instructions below and in the unit Installation Instructions for more details.

REFRIGERANT CHARGING

WARNING:

Split System Air Conditioners 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.
- 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.
- **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 below 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. Return to the system when the outdoor temperature is 65 degrees F or higher and follow the steps defined in step 4 of the "If the outdoor temperature is 65 degrees F or higher" section above.

SA4BD5M1SN18K

COOLING CHARGING TABLE
(SUPERHEAT CHARGING TARGETS FOR FIXED ORIFCE SYSTEMS)

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	31.4	31.9	32.6	33.4	34.3	35.3	-	-	-	-	-
	65	27.1	27.6	28.3	29.1	30.0	31.0	32.2	33.4	-	-	-
	70	23.2	23.7	24.4	25.2	26.1	27.2	28.3	29.6	31.0	32.4	-
	75	19.6	20.2	20.9	21.7	22.6	23.7	24.8	26.1	27.5	29.0	30.6
	80	16.4	17.0	17.7	18.6	19.5	20.5	21.7	23.0	24.4	25.9	27.5
	85	13.6	14.2	14.9	15.8	16.7	17.8	18.9	20.2	21.6	23.2	24.8
	90	11.2	11.8	12.5	13.4	14.3	15.4	16.6	17.9	19.3	20.8	22.4
	95	9.1	9.7	10.5	11.3	12.3	10.7	14.5	15.8	17.3	18.8	20.4
	100	7.4	8.0	8.8	9.6	10.6	11.7	12.9	14.2	15.6	17.2	18.8
	105	6.1	6.7	7.4	8.3	9.3	10.4	11.6	12.9	14.4	15.9	17.6
	110	-	5.7	6.5	7.4	8.4	9.5	10.7	12.0	13.4	15.0	16.7
	115	-	-	5.9	6.8	7.8	8.9	10.1	11.5	12.9	14.5	16.2

ESTIMATED PRESSURES
(FIXED ORIFICE IN COOLING MODE)

		SA4BD5M1-SN18K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		104.0	200.6
	65		110.4	220.0
	70		116.3	240.2
	75		121.7	261.3
	80		126.6	283.3
	85		130.9	306.1
	90		134.7	329.8
	95		137.9	354.4
	100		140.7	379.9
	105		142.9	406.3
	110		144.6	433.5
	115		145.8	461.6

- Superheat 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 600 SCFM

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	7.5	7.1	6.4	5.7	4.8	3.7	-	-	-	-	-
	65	9.4	9.0	8.4	7.7	6.9	6.0	4.9	3.7	-	-	-
	70	11.0	10.7	10.2	9.5	8.8	7.9	7.0	5.9	4.6	3.2	-
	75	12.5	12.1	11.7	11.1	10.5	9.7	8.8	7.8	6.7	5.5	4.1
	80	13.7	13.4	13.0	12.5	11.9	11.3	10.5	9.6	8.6	7.5	6.2
	85	14.8	14.5	14.2	13.8	13.3	12.7	12.0	11.2	10.3	9.3	8.2
	90	15.7	15.5	15.2	14.9	14.5	13.9	13.3	12.7	11.9	11.0	10.1
	95	16.6	16.4	16.2	15.9	15.6	15.2	14.6	14.1	13.4	12.7	11.8
	100	17.5	17.3	17.1	16.9	16.6	16.3	15.9	15.4	14.8	14.2	13.5
	105	18.3	18.2	18.1	17.9	17.7	17.4	17.1	16.7	16.2	15.7	15.2
	110	-	19.1	19.0	18.9	18.7	18.5	18.3	18.0	17.7	17.3	16.8
	115	-	-	20.0	19.9	19.8	19.7	19.5	19.3	19.1	18.8	18.5

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4BD5M1-SN18K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		133.1	207.0
	65		133.7	223.3
	70		134.3	241.7
	75		135.0	262.2
	80		135.7	284.7
	85		136.4	309.3
	90		137.2	336.0
	95		138.1	364.7
	100		139.0	395.6
	105		139.9	428.5
	110		140.9	463.5
	115		141.9	500.5

- 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 605 SCFM

SA4BD5M1SN24K

COOLING CHARGING TABLE
(SUPERHEAT CHARGING TARGETS FOR FIXED ORIFCE SYSTEMS)

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	27.4	27.9	28.6	29.4	30.3	31.3	-	-	-	-	-
	65	23.1	23.6	24.3	25.1	26.0	27.0	28.2	29.4	-	-	-
	70	19.2	19.7	20.4	21.2	22.1	23.2	24.3	25.6	27.0	28.4	-
	75	15.6	16.2	16.9	17.7	18.6	19.7	20.8	22.1	23.5	25.0	26.6
	80	12.4	13.0	13.7	14.6	15.5	16.5	17.7	19.0	20.4	21.9	23.5
	85	9.6	10.2	10.9	11.8	12.7	13.8	14.9	16.2	17.6	19.2	20.8
	90	7.2	7.8	8.5	9.4	10.3	11.4	12.6	13.9	15.3	16.8	18.4
	95	5.1	5.7	6.5	7.3	8.3	5.8	10.5	11.8	13.3	14.8	16.4
	100	5.0	5.0	5.0	5.6	6.6	7.7	8.9	10.2	11.6	13.2	14.8
	105	5.0	5.0	5.0	5.0	5.3	6.4	7.6	8.9	10.4	11.9	13.6
	110	-	5.0	5.0	5.0	5.0	5.5	6.7	8.0	9.4	11.0	12.7
	115	-	-	5.0	5.0	5.0	5.0	6.1	7.5	8.9	10.5	12.2

ESTIMATED PRESSURES
(FIXED ORIFICE IN COOLING MODE)

SA4BD5M1-SN24K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	113.4	221.7
	65	117.9	242.5
	70	122.1	264.2
	75	126.0	286.9
	80	129.6	310.5
	85	132.7	335.0
	90	135.6	360.5
	95	138.1	387.0
	100	140.2	414.4
	105	142.0	442.7
	110	143.5	472.0
	115	144.6	502.2

-Superheat 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 700 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.

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	4.5	4.1	3.4	3.0	3.0	3.0	-	-	-	-	-
	65	6.4	6.0	5.4	4.7	3.9	3.0	3.0	3.0	-	-	-
	70	8.0	7.7	7.2	6.5	5.8	4.9	4.0	3.0	3.0	3.0	-
	75	9.5	9.1	8.7	8.1	7.5	6.7	5.8	4.8	3.7	3.0	3.0
	80	10.7	10.4	10.0	9.5	8.9	8.3	7.5	6.6	5.6	4.5	3.2
	85	11.8	11.5	11.2	10.8	10.3	9.7	9.0	8.2	7.3	6.3	5.2
	90	12.7	12.5	12.2	11.9	11.5	10.9	10.3	9.7	8.9	8.0	7.1
	95	13.6	13.4	13.2	12.9	12.6	12.1	11.6	11.1	10.4	9.7	8.8
	100	14.5	14.3	14.1	13.9	13.6	13.3	12.9	12.4	11.8	11.2	10.5
	105	15.3	15.2	15.1	14.9	14.7	14.4	14.1	13.7	13.2	12.7	12.2
	110	-	16.1	16.0	15.9	15.7	15.5	15.3	15.0	14.7	14.3	13.8
	115	-	-	17.0	16.9	16.8	16.7	16.5	16.3	16.1	15.8	15.5

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

SA4BD5M1-SN24K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	128.6	215.9
	65	129.2	233.3
	70	129.9	252.2
	75	130.6	272.7
	80	131.4	294.7
	85	132.1	318.3
	90	132.9	343.5
	95	133.8	370.2
	100	134.6	398.5
	105	135.5	428.4
	110	136.4	459.8
	115	137.4	492.8

-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 745 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.

SA4BD5M1SN30K

COOLING CHARGING TABLE
(SUPERHEAT CHARGING TARGETS FOR FIXED ORIFCE SYSTEMS)

SA4BD5M1-SN30K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	34.4	34.9	35.6	36.4	37.3	38.3	-	-	-	-	-
	65	30.1	30.6	31.3	32.1	33.0	34.0	35.2	36.4	-	-	-
	70	26.2	26.7	27.4	28.2	29.1	30.2	31.3	32.6	34.0	35.4	-
	75	22.6	23.2	23.9	24.7	25.6	26.7	27.8	29.1	30.5	32.0	33.6
	80	19.4	20.0	20.7	21.6	22.5	23.5	24.7	26.0	27.4	28.9	30.5
	85	16.6	17.2	17.9	18.8	19.7	20.8	21.9	23.2	24.6	26.2	27.8
	90	14.2	14.8	15.5	16.4	17.3	18.4	19.6	20.9	22.3	23.8	25.4
	95	12.1	12.7	13.5	14.3	15.3	14.9	17.5	18.8	20.3	21.8	23.4
	100	10.4	11.0	11.8	12.6	13.6	14.7	15.9	17.2	18.6	20.2	21.8
	105	9.1	9.7	10.4	11.3	12.3	13.4	14.6	15.9	17.4	18.9	20.6
	110	-	8.7	9.5	10.4	11.4	12.5	13.7	15.0	16.4	18.0	19.7
	115	-	-	8.9	9.8	10.8	11.9	13.1	14.5	15.9	17.5	19.2

ESTIMATED PRESSURES
(FIXED ORIFICE IN COOLING MODE)

SA4BD5M1-SN30K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	105.2	197.9
	65	110.0	215.4
	70	114.4	234.1
	75	118.6	253.8
	80	122.4	274.6
	85	125.8	296.5
	90	129.0	319.6
	95	131.8	343.7
	100	134.3	368.9
	105	136.4	395.2
	110	138.3	422.6
	115	139.8	451.1

- Superheat 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 875 SCFM

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

SA4BD5M1-SN30K		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	12.3	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

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

SA4BD5M1-SN30K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	124.8	199.4
	65	125.6	216.0
	70	126.4	233.9
	75	127.2	253.3
	80	128.1	274.1
	85	128.9	296.3
	90	129.8	319.9
	95	130.8	344.8
	100	131.8	371.2
	105	132.7	399.0
	110	133.8	428.3
	115	134.8	458.9

- 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 930 SCFM

SA4BD5M1SN36K

COOLING CHARGING TABLE
(SUPERHEAT CHARGING TARGETS FOR FIXED ORIFCE SYSTEMS)

SA4BD5M1-SN36K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	34.4	34.9	35.6	36.4	37.3	38.3	-	-	-	-	-
	65	30.1	30.6	31.3	32.1	33.0	34.0	35.2	36.4	-	-	-
	70	26.2	26.7	27.4	28.2	29.1	30.2	31.3	32.6	34.0	35.4	-
	75	22.6	23.2	23.9	24.7	25.6	26.7	27.8	29.1	30.5	32.0	33.6
	80	19.4	20.0	20.7	21.6	22.5	23.5	24.7	26.0	27.4	28.9	30.5
	85	16.6	17.2	17.9	18.8	19.7	20.8	21.9	23.2	24.6	26.2	27.8
	90	14.2	14.8	15.5	16.4	17.3	18.4	19.6	20.9	22.3	23.8	25.4
	95	12.1	12.7	13.5	14.3	15.3	13.2	17.5	18.8	20.3	21.8	23.4
	100	10.4	11.0	11.8	12.6	13.6	14.7	15.9	17.2	18.6	20.2	21.8
	105	9.1	9.7	10.4	11.3	12.3	13.4	14.6	15.9	17.4	18.9	20.6
	110	-	8.7	9.5	10.4	11.4	12.5	13.7	15.0	16.4	18.0	19.7
	115	-	-	8.9	9.8	10.8	11.9	13.1	14.5	15.9	17.5	19.2

ESTIMATED PRESSURES
(FIXED ORIFICE IN COOLING MODE)

SA4BD5M1-SN36K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	107.2	200.3
	65	113.1	218.6
	70	118.4	237.7
	75	123.2	257.6
	80	127.4	278.3
	85	131.1	299.9
	90	134.2	322.3
	95	136.8	345.5
	100	138.9	369.5
	105	140.4	394.4
	110	141.4	420.1
	115	141.8	446.6

- Superheat 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 1050 SCFM

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

SA4BD5M1-SN36K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	6.4	5.4	4.7	4.2	4.3	5.2	-	-	-	-	-
	65	8.9	7.9	7.0	6.4	6.3	6.8	8.2	10.8	-	-	-
	70	10.9	9.9	9.0	8.2	7.9	8.1	9.2	11.3	14.6	19.4	-
	75	12.4	11.5	10.5	9.7	9.2	9.2	9.9	11.6	14.5	18.7	24.5
	80	13.6	12.7	11.8	10.9	10.2	10.0	10.4	11.8	14.2	17.9	23.2
	85	14.3	13.6	12.7	11.8	11.0	10.6	10.9	11.9	13.9	17.2	21.9
	90	14.8	14.3	13.4	12.5	11.7	11.2	11.2	11.9	13.6	16.4	20.6
	95	14.9	14.6	13.9	13.1	12.2	11.5	11.4	11.9	13.3	15.7	19.5
	100	14.9	14.8	14.3	13.5	12.7	12.0	11.7	12.0	13.1	15.2	18.5
	105	14.6	14.8	14.5	13.8	13.1	12.4	12.0	12.1	13.0	14.8	17.7
	110	-	14.7	14.7	14.2	13.5	12.8	12.4	12.4	13.1	14.5	17.1
	115	-	-	14.8	14.5	14.0	13.4	12.9	12.8	13.3	14.6	16.8

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

SA4BD5M1-SN36K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	125.1	201.6
	65	125.9	218.2
	70	126.8	236.2
	75	127.7	255.4
	80	128.6	276.1
	85	129.6	298.0
	90	130.6	321.4
	95	131.7	346.0
	100	132.8	372.0
	105	133.9	399.4
	110	135.0	428.1
	115	136.2	458.1

- 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 1125 SCFM

SA4BD5M1SN42K

COOLING CHARGING TABLE
(SUPERHEAT CHARGING TARGETS FOR FIXED ORIFCE SYSTEMS)

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	31.2	32.2	33.4	34.9	36.5	38.4	-	-	-	-	-
	65	27.3	28.2	29.4	30.8	32.4	34.3	36.4	38.7	-	-	-
	70	23.6	24.5	25.7	27.0	28.6	30.4	32.5	34.8	37.3	40.0	-
	75	20.2	21.1	22.2	23.5	25.1	26.9	28.9	31.1	33.6	36.3	39.2
	80	17.1	18.0	19.0	20.3	21.8	23.6	25.5	27.7	30.1	32.8	35.7
	85	14.3	15.1	16.1	17.3	18.8	20.5	22.5	24.6	27.0	29.6	32.4
	90	11.7	12.5	13.5	14.7	16.1	17.8	19.7	21.8	24.1	26.7	29.5
	95	9.4	10.2	11.1	12.3	13.7	16.1	17.1	19.2	21.5	24.0	26.8
	100	7.4	8.1	9.0	10.1	11.5	13.1	14.9	16.9	19.2	21.7	24.4
	105	5.7	6.3	7.2	8.3	9.6	11.2	12.9	14.9	17.1	19.6	22.3
	110	-	5.0	5.7	6.7	8.0	9.5	11.2	13.2	15.4	17.8	20.4
	115	-	-	5.0	5.4	6.7	8.1	9.8	11.7	13.9	16.2	18.8

ESTIMATED PRESSURES
(FIXED ORIFICE IN COOLING MODE)

		SA4BD5M1-SN42K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		108.6	196.6
	65		113.0	214.6
	70		117.1	233.6
	75		120.9	253.4
	80		124.5	274.2
	85		127.7	295.8
	90		130.7	318.3
	95		133.3	341.7
	100		135.7	366.0
	105		137.8	391.2
	110		139.6	417.3
	115		141.1	444.2

-Superheat 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 1230 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.

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	6.4	5.4	4.7	4.2	4.3	5.2	-	-	-	-	-
	65	8.9	7.9	7.0	6.4	6.3	6.8	8.2	10.8	-	-	-
	70	10.9	9.9	9.0	8.2	7.9	8.1	9.2	11.3	14.6	19.4	-
	75	12.4	11.5	10.5	9.7	9.2	9.2	9.9	11.6	14.5	18.7	24.5
	80	13.6	12.7	11.8	10.9	10.2	10.0	10.4	11.8	14.2	17.9	23.2
	85	14.3	13.6	12.7	11.8	11.0	10.6	10.9	11.9	13.9	17.2	21.9
	90	14.8	14.3	13.4	12.5	11.7	11.2	11.2	11.9	13.6	16.4	20.6
	95	14.9	14.6	13.9	13.1	12.2	11.0	11.4	11.9	13.3	15.7	19.5
	100	14.9	14.8	14.3	13.5	12.7	12.0	11.7	12.0	13.1	15.2	18.5
	105	14.6	14.8	14.5	13.8	13.1	12.4	12.0	12.1	13.0	14.8	17.7
	110	-	14.7	14.7	14.2	13.5	12.8	12.4	12.4	13.1	14.5	17.1
	115	-	-	14.8	14.5	14.0	13.4	12.9	12.8	13.3	14.6	16.8

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4BD5M1-SN42K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		124.1	200.3
	65		124.8	216.4
	70		125.5	234.0
	75		126.2	253.1
	80		127.0	273.7
	85		127.8	295.8
	90		128.6	319.5
	95		129.4	344.6
	100		130.3	371.3
	105		131.1	399.5
	110		132.0	429.2
	115		133.0	460.5

-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 1195 SCFM

SA4BD5M1SN48K

COOLING CHARGING TABLE
(SUPERHEAT CHARGING TARGETS FOR FIXED ORIFCE SYSTEMS)

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	28.2	29.2	30.4	31.9	33.5	35.4	-	-	-	-	-
	65	24.3	25.2	26.4	27.8	29.4	31.3	33.4	35.7	-	-	-
	70	20.6	21.5	22.7	24.0	25.6	27.4	29.5	31.8	34.3	37.0	-
	75	17.2	18.1	19.2	20.5	22.1	23.9	25.9	28.1	30.6	33.3	36.2
	80	14.1	15.0	16.0	17.3	18.8	20.6	22.5	24.7	27.1	29.8	32.7
	85	11.3	12.1	13.1	14.3	15.8	17.5	19.5	21.6	24.0	26.6	29.4
	90	8.7	9.5	10.5	11.7	13.1	14.8	16.7	18.8	21.1	23.7	26.5
	95	6.4	7.2	8.1	9.3	10.7	12.5	14.1	16.2	18.5	21.0	23.8
	100	5.0	5.1	6.0	7.1	8.5	10.1	11.9	13.9	16.2	18.7	21.4
	105	5.0	5.0	5.0	5.3	6.6	8.2	9.9	11.9	14.1	16.6	19.3
	110	-	5.0	5.0	5.0	5.0	6.5	8.2	10.2	12.4	14.8	17.4
	115	-	-	5.0	5.0	5.0	5.1	6.8	8.7	10.9	13.2	15.8

ESTIMATED PRESSURES
(FIXED ORIFICE IN COOLING MODE)

SA4BD5M1-SN48K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	106.2	203.7
	65	110.4	221.7
	70	114.4	240.8
	75	118.0	260.8
	80	121.4	281.9
	85	124.5	303.9
	90	127.3	327.0
	95	129.7	351.1
	100	131.9	376.2
	105	133.8	402.4
	110	135.4	429.5
	115	136.7	457.7

-Superheat 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 1405 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.

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	7.8	7.8	7.8	7.8	7.8	7.7	-	-	-	-	-
	65	8.9	8.9	8.8	8.8	8.8	8.8	8.8	8.8	-	-	-
	70	9.7	9.6	9.6	9.6	9.6	9.5	9.5	9.5	9.5	9.4	-
	75	10.2	10.2	10.2	10.1	10.1	10.1	10.0	10.0	10.0	9.9	9.9
	80	10.6	10.6	10.6	10.5	10.5	10.5	10.4	10.4	10.3	10.2	10.2
	85	11.0	10.9	10.9	10.9	10.8	10.8	10.7	10.6	10.6	10.5	10.4
	90	11.3	11.3	11.2	11.2	11.1	11.0	11.0	10.9	10.8	10.7	10.6
	95	11.7	11.7	11.6	11.6	11.5	11.6	11.3	11.2	11.1	11.0	10.9
	100	12.3	12.2	12.2	12.1	12.0	11.9	11.8	11.7	11.5	11.4	11.3
	105	13.0	13.0	12.9	12.8	12.7	12.6	12.5	12.3	12.2	12.0	11.9
	110	-	14.0	13.9	13.8	13.7	13.6	13.4	13.3	13.1	12.9	12.7
	115	-	-	15.3	15.2	15.1	14.9	14.8	14.6	14.4	14.2	13.9

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

SA4BD5M1-SN48K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	122.3	207.2
	65	123.8	224.0
	70	125.3	242.2
	75	126.6	262.0
	80	127.9	283.3
	85	129.1	306.1
	90	130.2	330.3
	95	131.2	356.1
	100	132.2	383.4
	105	133.0	412.2
	110	133.8	442.5
	115	134.5	474.3

-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 1510 SCFM

SA4BD5M1SN60K

COOLING CHARGING TABLE
(SUPERHEAT CHARGING TARGETS FOR FIXED ORIFCE SYSTEMS)

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	28.6	29.9	31.5	33.5	35.7	38.3	-	-	-	-	-
	65	23.6	24.8	26.3	28.2	30.3	32.8	35.6	38.7	-	-	-
	70	19.2	20.3	21.7	23.4	25.4	27.8	30.5	33.5	36.8	40.0	-
	75	15.3	16.3	17.6	19.2	21.1	23.3	25.9	28.8	32.0	35.5	39.4
	80	12.0	12.9	14.0	15.5	17.3	19.5	21.9	24.7	27.8	31.2	34.9
	85	9.2	10.0	11.0	12.4	14.1	16.1	18.5	21.1	24.1	27.4	31.0
	90	7.0	7.6	8.6	9.8	11.4	13.3	15.6	18.1	21.0	24.2	27.7
	95	5.3	5.9	6.7	7.8	9.3	11.0	13.2	15.7	18.4	21.5	24.9
	100	5.0	5.0	5.3	6.4	7.7	9.4	11.4	13.7	16.4	19.4	22.6
	105	5.0	5.0	5.0	5.5	6.7	8.3	10.2	12.4	14.9	17.8	20.9
	110	-	5.0	5.0	5.1	6.2	7.7	9.5	11.6	14.0	16.7	19.8
	115	-	-	5.0	5.3	6.3	7.7	9.3	11.3	13.6	16.2	19.2

ESTIMATED PRESSURES
(FIXED ORIFICE IN COOLING MODE)

		SA4BD5M1-SN60K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		102.6	202.1
	65		106.6	220.1
	70		110.3	239.1
	75		113.8	259.1
	80		116.9	280.1
	85		119.8	302.2
	90		122.5	325.3
	95		124.9	349.4
	100		127.0	374.5
	105		128.8	400.7
	110		130.4	427.8
	115		131.7	456.0

-Superheat 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 1585 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.

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	6.6	5.7	4.9	4.5	4.6	5.5	-	-	-	-	-
	65	9.1	8.2	7.3	6.7	6.5	7.1	8.5	11.0	-	-	-
	70	11.1	10.2	9.2	8.5	8.1	8.4	9.4	11.5	14.9	19.6	-
	75	12.7	11.8	10.8	9.9	9.4	9.4	10.2	11.9	14.7	19.0	24.8
	80	13.8	13.0	12.0	11.1	10.4	10.2	10.7	12.0	14.5	18.2	23.4
	85	14.6	13.9	13.0	12.0	11.3	10.9	11.1	12.1	14.2	17.4	22.1
	90	15.0	14.5	13.7	12.7	11.9	11.4	11.4	12.2	13.8	16.7	20.8
	95	15.2	14.9	14.2	13.3	12.5	12.0	11.7	12.2	13.5	16.0	19.7
	100	15.1	15.0	14.5	13.7	12.9	12.2	12.0	12.2	13.3	15.4	18.7
	105	14.9	15.1	14.7	14.1	13.3	12.6	12.3	12.4	13.2	15.0	17.9
	110	-	15.0	14.9	14.4	13.7	13.1	12.7	12.7	13.3	14.8	17.4
	115	-	-	15.0	14.8	14.2	13.6	13.2	13.1	13.6	14.8	17.1

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4BD5M1-SN60K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		119.6	206.2
	65		120.7	223.9
	70		121.8	242.7
	75		122.8	262.5
	80		123.8	283.3
	85		124.8	305.2
	90		125.7	328.1
	95		126.7	352.0
	100		127.6	376.9
	105		128.5	402.9
	110		129.3	429.9
	115		130.2	458.0

-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 1745 SCFM

SA4MD5M1SN24K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	4.5	4.1	3.6	3.0	3.0	3.0	-	-	-	-	-
	65	6.0	5.7	5.3	4.7	3.9	3.1	3.0	3.0	-	-	-
	70	7.4	7.1	6.7	6.1	5.5	4.7	3.9	3.0	3.0	3.0	-
	75	8.5	8.3	7.9	7.4	6.8	6.2	5.4	4.6	3.8	3.0	3.0
	80	9.5	9.3	9.0	8.5	8.0	7.4	6.7	6.0	5.2	4.4	3.7
	85	10.3	10.1	9.9	9.5	9.0	8.4	7.8	7.2	6.5	5.8	5.1
	90	10.9	10.8	10.6	10.3	9.9	9.4	8.8	8.2	7.6	7.0	6.4
	95	11.4	11.4	11.2	10.9	10.6	10.3	9.6	9.1	8.6	8.1	7.6
	100	11.8	11.8	11.7	11.4	11.1	10.8	10.4	9.9	9.5	9.1	8.7
	105	12.0	12.1	12.0	11.8	11.6	11.3	11.0	10.6	10.3	9.9	9.6
	110	-	12.2	12.2	12.2	12.0	11.8	11.5	11.2	11.0	10.7	10.5
	115	-	-	12.4	12.4	12.3	12.1	12.0	11.8	11.6	11.4	11.3

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4MD5M1-SN24K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		129.2	208.7
	65		130.4	226.2
	70		131.5	244.9
	75		132.6	264.8
	80		133.6	285.8
	85		134.5	308.0
	90		135.4	331.3
	95		136.2	355.8
	100		137.0	381.5
	105		137.7	408.3
	110		138.4	436.3
	115		139.0	465.4

-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 850 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.

SA4MD5M1SN30K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	6.6	5.7	4.9	4.5	4.6	5.5	-	-	-	-	-
	65	9.1	8.2	7.3	6.7	6.5	7.1	8.5	11.0	-	-	-
	70	11.1	10.2	9.2	8.5	8.1	8.4	9.4	11.5	14.9	19.6	-
	75	12.7	11.8	10.8	9.9	9.4	9.4	10.2	11.9	14.7	19.0	24.8
	80	13.8	13.0	12.0	11.1	10.4	10.2	10.7	12.0	14.5	18.2	23.4
	85	14.6	13.9	13.0	12.0	11.3	10.9	11.1	12.1	14.2	17.4	22.1
	90	15.0	14.5	13.7	12.7	11.9	11.4	11.4	12.2	13.8	16.7	20.8
	95	15.2	14.9	14.2	13.3	12.5	12.0	11.7	12.2	13.5	16.0	19.7
	100	15.1	15.0	14.5	13.7	12.9	12.2	12.0	12.2	13.3	15.4	18.7
	105	14.9	15.1	14.7	14.1	13.3	12.6	12.3	12.4	13.2	15.0	17.9
	110	-	15.0	14.9	14.4	13.7	13.1	12.7	12.7	13.3	14.8	17.4
	115	-	-	15.0	14.8	14.2	13.6	13.2	13.1	13.6	14.8	17.1

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4MD5M1-SN30K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		127.4	207.6
	65		128.2	225.4
	70		128.9	244.3
	75		129.6	264.3
	80		130.4	285.5
	85		131.1	307.8
	90		131.9	331.2
	95		132.7	355.8
	100		133.5	381.5
	105		134.3	408.4
	110		135.1	436.4
	115		135.9	465.6

-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 1005 SCFM

SA4MD5M1SN36K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	3.6	3.5	3.2	3.0	3.0	3.0	-	-	-	-	-
	65	5.4	5.2	4.9	4.4	3.9	3.3	3.0	3.0	-	-	-
	70	6.8	6.6	6.3	5.8	5.2	4.5	3.8	3.0	3.0	3.0	-
	75	8.1	7.9	7.5	7.0	6.3	5.6	4.8	4.0	3.1	3.0	3.0
	80	9.2	8.9	8.5	8.0	7.3	6.5	5.7	4.9	4.0	3.1	3.0
	85	10.0	9.8	9.4	8.8	8.2	7.4	6.6	5.7	4.8	3.9	3.0
	90	10.8	10.6	10.2	9.6	9.0	8.2	7.4	6.5	5.6	4.7	3.8
	95	11.5	11.3	10.9	10.4	9.8	9.9	8.2	7.3	6.4	5.5	4.6
	100	12.1	11.9	11.6	11.2	10.6	9.9	9.1	8.2	7.3	6.4	5.6
	105	12.7	12.6	12.3	11.9	11.4	10.7	10.0	9.2	8.3	7.5	6.6
	110	-	13.3	13.1	12.8	12.3	11.7	11.0	10.3	9.5	8.7	7.9
	115	-	-	14.0	13.7	13.3	12.8	12.2	11.6	10.8	10.1	9.4

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4MD5M1-SN36K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		123.5	211.0
	65		124.6	228.7
	70		125.8	247.6
	75		126.9	267.7
	80		128.0	289.0
	85		129.1	311.6
	90		130.2	335.5
	95		131.3	360.5
	100		132.3	386.8
	105		133.4	414.3
	110		134.4	443.1
	115		135.4	473.1

-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 1125 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.

SA4MD5M1SN42K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	4.2	3.3	3.0	3.0	3.0	3.1	-	-	-	-	-
	65	6.7	5.8	4.9	4.3	4.1	4.7	6.1	8.6	-	-	-
	70	8.7	7.8	6.8	6.1	5.7	6.0	7.0	9.1	12.5	17.2	-
	75	10.3	9.4	8.4	7.5	7.0	7.0	7.8	9.5	12.3	16.6	22.4
	80	11.4	10.6	9.6	8.7	8.0	7.8	8.3	9.6	12.1	15.8	21.0
	85	12.2	11.5	10.6	9.6	8.9	8.5	8.7	9.7	11.8	15.0	19.7
	90	12.6	12.1	11.3	10.3	9.5	9.0	9.0	9.8	11.4	14.3	18.4
	95	12.8	12.5	11.8	10.9	10.1	9.3	9.3	9.8	11.1	13.6	17.3
	100	12.7	12.6	12.1	11.3	10.5	9.8	9.6	9.8	10.9	13.0	16.3
	105	12.5	12.7	12.3	11.7	10.9	10.2	9.9	10.0	10.8	12.6	15.5
	110	-	12.6	12.5	12.0	11.3	10.7	10.3	10.3	10.9	12.4	15.0
	115	-	-	12.6	12.4	11.8	11.2	10.8	10.7	11.2	12.4	14.7

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4MD5M1-SN42K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		120.3	195.3
	65		121.3	213.0
	70		122.3	231.7
	75		123.4	251.4
	80		124.4	272.3
	85		125.6	294.2
	90		126.7	317.2
	95		127.9	341.2
	100		129.1	366.3
	105		130.4	392.5
	110		131.7	419.7
	115		133.0	448.0

-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 1200 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.

SA4MD5M1SN48K

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

SA4MD5M1-SN48K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	9.4	9.3	9.0	8.7	8.2	7.7	-	-	-	-	-
	65	11.2	11.0	10.7	10.2	9.7	9.1	8.4	7.7	-	-	-
	70	12.6	12.4	12.1	11.6	11.0	10.3	9.6	8.8	8.0	7.2	-
	75	13.9	13.7	13.3	12.8	12.1	11.4	10.6	9.8	8.9	8.1	7.3
	80	15.0	14.7	14.3	13.8	13.1	12.3	11.5	10.7	9.8	8.9	8.1
	85	15.8	15.6	15.2	14.6	14.0	13.2	12.4	11.5	10.6	9.7	8.8
	90	16.6	16.4	16.0	15.4	14.8	14.0	13.2	12.3	11.4	10.5	9.6
	95	17.3	17.1	16.7	16.2	15.6	13.9	14.0	13.1	12.2	11.3	10.4
	100	17.9	17.7	17.4	17.0	16.4	15.7	14.9	14.0	13.1	12.2	11.4
	105	18.5	18.4	18.1	17.7	17.2	16.5	15.8	15.0	14.1	13.3	12.4
	110	-	19.1	18.9	18.6	18.1	17.5	16.8	16.1	15.3	14.5	13.7
	115	-	-	19.8	19.5	19.1	18.6	18.0	17.4	16.6	15.9	15.2

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

SA4MD5M1-SN48K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	119.7	212.6
	65	120.5	228.6
	70	121.4	246.6
	75	122.3	266.4
	80	123.2	288.1
	85	124.1	311.7
	90	125.1	337.2
	95	126.0	364.6
	100	127.0	393.9
	105	127.9	425.0
	110	128.9	458.1
	115	129.9	493.0

-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 1400 SCFM

SA4BE5M1SN18K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	6.1	5.2	4.4	4.0	4.1	5.0	-	-	-	-	-
	65	8.6	7.7	6.8	6.2	6.0	6.6	8.0	10.5	-	-	-
	70	10.6	9.7	8.7	8.0	7.6	7.9	8.9	11.0	14.4	19.1	-
	75	12.2	11.3	10.3	9.4	8.9	8.9	9.7	11.4	14.2	18.5	24.3
	80	13.3	12.5	11.5	10.6	9.9	9.7	10.2	11.5	14.0	17.7	22.9
	85	14.1	13.4	12.5	11.5	10.8	10.4	10.6	11.6	13.7	16.9	21.6
	90	14.5	14.0	13.2	12.2	11.4	10.9	10.9	11.7	13.3	16.2	20.3
	95	14.7	14.4	13.7	12.8	12.0	11.4	11.2	11.7	13.0	15.5	19.2
	100	14.6	14.5	14.0	13.2	12.4	11.7	11.5	11.7	12.8	14.9	18.2
	105	14.4	14.6	14.2	13.6	12.8	12.1	11.8	11.9	12.7	14.5	17.4
	110	-	14.5	14.4	13.9	13.2	12.6	12.2	12.2	12.8	14.3	16.9
	115	-	-	14.5	14.3	13.7	13.1	12.7	12.6	13.1	14.3	16.6

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4BE5M1-SN18K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		132.2	194.0
	65		132.9	210.8
	70		133.6	228.9
	75		134.3	248.2
	80		135.1	268.8
	85		135.8	290.7
	90		136.6	313.8
	95		137.3	338.1
	100		138.1	363.8
	105		138.9	390.6
	110		139.8	418.8
	115		140.6	448.2

-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 595 SCFM

SA4BE5M1SN24K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	6.1	5.2	4.4	4.0	4.1	5.0	-	-	-	-	-
	65	8.6	7.7	6.8	6.2	6.0	6.6	8.0	10.5	-	-	-
	70	10.6	9.7	8.7	8.0	7.6	7.9	8.9	11.0	14.4	19.1	-
	75	12.2	11.3	10.3	9.4	8.9	8.9	9.7	11.4	14.2	18.5	24.3
	80	13.3	12.5	11.5	10.6	9.9	9.7	10.2	11.5	14.0	17.7	22.9
	85	14.1	13.4	12.5	11.5	10.8	10.4	10.6	11.6	13.7	16.9	21.6
	90	14.5	14.0	13.2	12.2	11.4	10.9	10.9	11.7	13.3	16.2	20.3
	95	14.7	14.4	13.7	12.8	12.0	11.4	11.2	11.7	13.0	15.5	19.2
	100	14.6	14.5	14.0	13.2	12.4	11.7	11.5	11.7	12.8	14.9	18.2
	105	14.4	14.6	14.2	13.6	12.8	12.1	11.8	11.9	12.7	14.5	17.4
	110	-	14.5	14.4	13.9	13.2	12.6	12.2	12.2	12.8	14.3	16.9
	115	-	-	14.5	14.3	13.7	13.1	12.7	12.6	13.1	14.3	16.6

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4BE5M1-SN24K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		130.9	193.0
	65		131.2	209.2
	70		131.6	226.7
	75		132.1	245.5
	80		132.6	265.7
	85		133.2	287.2
	90		133.9	310.1
	95		134.7	334.2
	100		135.6	359.8
	105		136.5	386.6
	110		137.5	414.8
	115		138.6	444.3

-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 800 SCFM

SA4BE5M1SN30K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	6.6	5.7	4.9	4.5	4.6	5.5	-	-	-	-	-
	65	9.1	8.2	7.3	6.7	6.5	7.1	8.5	11.0	-	-	-
	70	11.1	10.2	9.2	8.5	8.1	8.4	9.4	11.5	14.9	19.6	-
	75	12.7	11.8	10.8	9.9	9.4	9.4	10.2	11.9	14.7	19.0	24.8
	80	13.8	13.0	12.0	11.1	10.4	10.2	10.7	12.0	14.5	18.2	23.4
	85	14.6	13.9	13.0	12.0	11.3	10.9	11.1	12.1	14.2	17.4	22.1
	90	15.0	14.5	13.7	12.7	11.9	11.4	11.4	12.2	13.8	16.7	20.8
	95	15.2	14.9	14.2	13.3	12.5	11.9	11.7	12.2	13.5	16.0	19.7
	100	15.1	15.0	14.5	13.7	12.9	12.2	12.0	12.2	13.3	15.4	18.7
	105	14.9	15.1	14.7	14.1	13.3	12.6	12.3	12.4	13.2	15.0	17.9
	110	-	15.0	14.9	14.4	13.7	13.1	12.7	12.7	13.3	14.8	17.4
	115	-	-	15.0	14.8	14.2	13.6	13.2	13.1	13.6	14.8	17.1

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	127.4	198.9
	65	128.0	215.2
	70	128.7	233.0
	75	129.3	252.2
	80	130.0	272.8
	85	130.7	294.8
	90	131.4	318.2
	95	132.2	343.0
	100	133.0	369.3
	105	133.8	397.0
	110	134.6	426.0
	115	135.5	456.5

-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 955 SCFM

SA4BE5M1SN36K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	6.8	6.8	6.8	6.8	6.8	6.7	-	-	-	-	-
	65	7.9	7.9	7.8	7.8	7.8	7.8	7.8	7.8	-	-	-
	70	8.7	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5	8.4	-
	75	9.2	9.2	9.2	9.1	9.1	9.1	9.0	9.0	9.0	8.9	8.9
	80	9.6	9.6	9.6	9.5	9.5	9.5	9.4	9.4	9.3	9.2	9.2
	85	10.0	9.9	9.9	9.9	9.8	9.8	9.7	9.6	9.6	9.5	9.4
	90	10.3	10.3	10.2	10.2	10.1	10.0	10.0	9.9	9.8	9.7	9.6
	95	10.7	10.7	10.6	10.6	10.5	10.7	10.3	10.2	10.1	10.0	9.9
	100	11.3	11.2	11.2	11.1	11.0	10.9	10.8	10.7	10.5	10.4	10.3
	105	12.0	12.0	11.9	11.8	11.7	11.6	11.5	11.3	11.2	11.0	10.9
	110	-	13.0	12.9	12.8	12.7	12.6	12.4	12.3	12.1	11.9	11.7
	115	-	-	14.3	14.2	14.1	13.9	13.8	13.6	13.4	13.2	12.9

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	128.3	205.5
	65	129.5	222.8
	70	130.6	241.2
	75	131.6	260.9
	80	132.6	281.7
	85	133.5	303.8
	90	134.3	327.2
	95	135.0	351.7
	100	135.6	377.5
	105	136.2	404.4
	110	136.7	432.6
	115	137.1	462.1

-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 1050 SCFM

SA4BE5M1SN42K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	7.8	7.8	7.8	7.8	7.8	7.7	-	-	-	-	-
	65	8.9	8.9	8.8	8.8	8.8	8.8	8.8	8.8	-	-	-
	70	9.7	9.6	9.6	9.6	9.6	9.5	9.5	9.5	9.5	9.4	-
	75	10.2	10.2	10.2	10.1	10.1	10.1	10.0	10.0	10.0	9.9	9.9
	80	10.6	10.6	10.6	10.5	10.5	10.5	10.4	10.4	10.3	10.2	10.2
	85	11.0	10.9	10.9	10.9	10.8	10.8	10.7	10.6	10.6	10.5	10.4
	90	11.3	11.3	11.2	11.2	11.1	11.0	11.0	10.9	10.8	10.7	10.6
	95	11.7	11.7	11.6	11.6	11.5	11.1	11.3	11.2	11.1	11.0	10.9
	100	12.3	12.2	12.2	12.1	12.0	11.9	11.8	11.7	11.5	11.4	11.3
	105	13.0	13.0	12.9	12.8	12.7	12.6	12.5	12.3	12.2	12.0	11.9
	110	-	14.0	13.9	13.8	13.7	13.6	13.4	13.3	13.1	12.9	12.7
	115	-	-	15.3	15.2	15.1	14.9	14.8	14.6	14.4	14.2	13.9

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4BE5M1-SN42K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		131.7	202.7
	65		132.6	219.0
	70		133.5	236.8
	75		134.3	256.0
	80		135.1	276.7
	85		135.8	298.7
	90		136.5	322.2
	95		137.2	347.2
	100		137.8	373.5
	105		138.3	401.3
	110		138.9	430.5
	115		139.4	461.1

-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 1400 SCFM

SA4BE5M1SN48K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	9.3	9.3	9.3	9.3	9.3	9.2	-	-	-	-	-
	65	10.4	10.4	10.3	10.3	10.3	10.3	10.3	10.3	-	-	-
	70	11.2	11.1	11.1	11.1	11.1	11.0	11.0	11.0	11.0	10.9	-
	75	11.7	11.7	11.7	11.6	11.6	11.6	11.5	11.5	11.5	11.4	11.4
	80	12.1	12.1	12.1	12.0	12.0	12.0	11.9	11.9	11.8	11.7	11.7
	85	12.5	12.4	12.4	12.4	12.3	12.3	12.2	12.1	12.1	12.0	11.9
	90	12.8	12.8	12.7	12.7	12.6	12.5	12.5	12.4	12.3	12.2	12.1
	95	13.2	13.2	13.1	13.1	13.0	13.0	12.8	12.7	12.6	12.5	12.4
	100	13.8	13.7	13.7	13.6	13.5	13.4	13.3	13.2	13.0	12.9	12.8
	105	14.5	14.5	14.4	14.3	14.2	14.1	14.0	13.8	13.7	13.5	13.4
	110	-	15.5	15.4	15.3	15.2	15.1	14.9	14.8	14.6	14.4	14.2
	115	-	-	16.8	16.7	16.6	16.4	16.3	16.1	15.9	15.7	15.4

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4BE5M1-SN48K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		126.4	203.7
	65		127.2	220.1
	70		128.1	237.8
	75		128.9	257.0
	80		129.7	277.6
	85		130.5	299.7
	90		131.2	323.1
	95		131.9	348.1
	100		132.5	374.4
	105		133.1	402.2
	110		133.7	431.4
	115		134.2	462.0

-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 1500 SCFM

SA4BE5M1SN60K

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

SA4BE5M1-SN60K		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	9.2	9.3	9.6	10.1	10.5	10.7	-	-	-	-	-
	65	9.2	9.2	9.5	9.9	10.4	10.6	10.4	9.7	-	-	-
	70	9.2	9.2	9.5	9.9	10.4	10.6	10.5	9.8	8.3	6.0	-
	75	9.4	9.3	9.6	10.0	10.4	10.7	10.6	10.0	8.6	6.3	3.0
	80	9.6	9.5	9.7	10.2	10.6	10.9	10.9	10.3	9.0	6.8	3.5
	85	9.9	9.7	9.9	10.4	10.9	11.2	11.2	10.7	9.4	7.3	4.2
	90	10.1	9.9	10.1	10.6	11.1	11.5	11.5	11.1	9.9	7.9	4.9
	95	10.3	10.1	10.4	10.8	11.4	12.1	11.9	11.5	10.5	8.6	5.6
	100	10.5	10.3	10.5	11.0	11.6	12.1	12.2	11.9	11.0	9.2	6.4
	105	10.6	10.4	10.6	11.2	11.8	12.3	12.5	12.3	11.5	9.8	7.1
	110	-	10.4	10.7	11.2	11.9	12.5	12.8	12.7	11.9	10.4	7.8
	115	-	-	10.6	11.2	11.9	12.5	12.9	12.9	12.3	10.8	8.4

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

SA4BE5M1-SN60K		SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	119.2	212.3
	65	120.0	228.9
	70	120.9	246.8
	75	121.8	266.1
	80	122.7	286.9
	85	123.6	309.0
	90	124.6	332.5
	95	125.5	357.4
	100	126.5	383.7
	105	127.5	411.4
	110	128.4	440.5
	115	129.5	471.0

-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 1545 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.

SA4ME5M1SN24K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	6.9	6.6	6.3	5.9	5.4	4.8	-	-	-	-	-
	65	7.6	7.4	7.1	6.8	6.3	5.8	5.2	4.5	-	-	-
	70	8.1	8.0	7.8	7.5	7.1	6.7	6.2	5.6	4.9	4.1	-
	75	8.5	8.4	8.2	8.0	7.7	7.3	6.9	6.4	5.8	5.1	4.3
	80	8.7	8.7	8.6	8.4	8.1	7.8	7.4	7.0	6.4	5.8	5.2
	85	8.9	8.9	8.8	8.6	8.4	8.2	7.8	7.4	6.9	6.4	5.8
	90	8.9	8.9	8.9	8.8	8.6	8.4	8.1	7.7	7.3	6.8	6.3
	95	8.9	9.0	8.9	8.8	8.7	8.6	8.2	7.9	7.5	7.1	6.6
	100	8.9	9.0	8.9	8.9	8.7	8.5	8.3	8.0	7.6	7.2	6.8
	105	8.9	8.9	8.9	8.8	8.7	8.5	8.3	8.0	7.7	7.3	6.9
	110	-	8.9	8.9	8.8	8.6	8.4	8.2	7.9	7.6	7.3	6.9
	115	-	-	8.9	8.7	8.6	8.4	8.2	7.9	7.6	7.2	6.8

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4ME5M1-SN24K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		125.7	193.7
	65		127.1	210.7
	70		128.4	228.7
	75		129.6	247.7
	80		130.6	267.7
	85		131.6	288.7
	90		132.5	310.7
	95		133.3	333.7
	100		134.0	357.7
	105		134.6	382.7
	110		135.1	408.7
	115		135.5	435.6

-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 800 SCFM

SA4ME5M1SN30K

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

		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	5.3	4.4	3.5	3.0	3.0	3.3	4.7	7.2	-	-	-
	70	7.3	6.4	5.4	4.7	4.3	4.6	5.6	7.7	11.1	15.8	-
	75	8.9	8.0	7.0	6.1	5.6	5.6	6.4	8.1	10.9	15.2	21.0
	80	10.0	9.2	8.2	7.3	6.6	6.4	6.9	8.2	10.7	14.4	19.6
	85	10.8	10.1	9.2	8.2	7.5	7.1	7.3	8.3	10.4	13.6	18.3
	90	11.2	10.7	9.9	8.9	8.1	7.6	7.6	8.4	10.0	12.9	17.0
	95	11.4	11.1	10.4	9.5	8.7	8.1	7.9	8.4	9.7	12.2	15.9
	100	11.3	11.2	10.7	9.9	9.1	8.4	8.2	8.4	9.5	11.6	14.9
	105	11.1	11.3	10.9	10.3	9.5	8.8	8.5	8.6	9.4	11.2	14.1
	110	-	11.2	11.1	10.6	9.9	9.3	8.9	8.9	9.5	11.0	13.6
	115	-	-	11.2	11.0	10.4	9.8	9.4	9.3	9.8	11.0	13.3

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4ME5M1-SN30K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		130.2	199.2
	65		131.1	217.2
	70		132.0	236.1
	75		132.9	255.7
	80		133.9	276.3
	85		134.9	297.6
	90		135.9	319.9
	95		136.9	342.9
	100		137.9	366.8
	105		139.0	391.6
	110		140.1	417.2
	115		141.3	443.6

-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 1000 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.

SA4ME5M1SN36K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	4.0	3.1	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	6.5	5.6	4.7	4.1	3.9	4.5	5.9	8.4	-	-	-
	70	8.5	7.6	6.6	5.9	5.5	5.8	6.8	8.9	12.3	17.0	-
	75	10.1	9.2	8.2	7.3	6.8	6.8	7.6	9.3	12.1	16.4	22.2
	80	11.2	10.4	9.4	8.5	7.8	7.6	8.1	9.4	11.9	15.6	20.8
	85	12.0	11.3	10.4	9.4	8.7	8.3	8.5	9.5	11.6	14.8	19.5
	90	12.4	11.9	11.1	10.1	9.3	8.8	8.8	9.6	11.2	14.1	18.2
	95	12.6	12.3	11.6	10.7	9.9	9.0	9.1	9.6	10.9	13.4	17.1
	100	12.5	12.4	11.9	11.1	10.3	9.6	9.4	9.6	10.7	12.8	16.1
	105	12.3	12.5	12.1	11.5	10.7	10.0	9.7	9.8	10.6	12.4	15.3
	110	-	12.4	12.3	11.8	11.1	10.5	10.1	10.1	10.7	12.2	14.8
	115	-	-	12.4	12.2	11.6	11.0	10.6	10.5	11.0	12.2	14.5

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4ME5M1-SN36K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		124.5	200.1
	65		125.6	217.7
	70		126.6	236.5
	75		127.7	256.4
	80		128.8	277.5
	85		129.8	299.8
	90		130.9	323.3
	95		131.9	348.0
	100		133.0	373.8
	105		134.0	400.8
	110		135.1	429.0
	115		136.1	458.3

-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 1115 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.

SA4ME5M1SN42K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	3.4	3.0	3.0	3.0	3.0	3.0	-	-	-	-	-
	65	5.9	4.9	4.0	3.4	3.3	3.8	5.2	7.8	-	-	-
	70	7.9	6.9	6.0	5.2	4.9	5.1	6.2	8.3	11.6	16.4	-
	75	9.4	8.5	7.5	6.7	6.2	6.2	6.9	8.6	11.5	15.7	21.5
	80	10.6	9.7	8.8	7.9	7.2	7.0	7.4	8.8	11.2	14.9	20.2
	85	11.3	10.6	9.7	8.8	8.0	7.6	7.9	8.9	10.9	14.2	18.9
	90	11.8	11.3	10.4	9.5	8.7	8.2	8.2	8.9	10.6	13.4	17.6
	95	11.9	11.6	10.9	10.1	9.2	8.3	8.4	8.9	10.3	12.7	16.5
	100	11.9	11.8	11.3	10.5	9.7	9.0	8.7	9.0	10.1	12.2	15.5
	105	11.6	11.8	11.5	10.8	10.1	9.4	9.0	9.1	10.0	11.8	14.7
	110	-	11.7	11.7	11.2	10.5	9.8	9.4	9.4	10.1	11.5	14.1
	115	-	-	11.8	11.5	11.0	10.4	9.9	9.8	10.3	11.6	13.8

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4ME5M1-SN42K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		123.1	186.3
	65		124.0	203.1
	70		124.9	220.9
	75		125.9	239.6
	80		126.8	259.2
	85		127.8	279.8
	90		128.9	301.4
	95		129.9	323.8
	100		131.0	347.2
	105		132.1	371.5
	110		133.2	396.8
	115		134.4	423.0

-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 1220 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.

SA4ME5M1SN48K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	7.6	7.7	7.8	7.9	8.0	7.9	-	-	-	-	-
	65	8.0	8.0	8.2	8.3	8.3	8.3	8.0	7.6	-	-	-
	70	8.2	8.3	8.4	8.5	8.6	8.6	8.4	8.0	7.3	6.3	-
	75	8.4	8.4	8.5	8.7	8.8	8.8	8.7	8.3	7.7	6.8	5.5
	80	8.5	8.5	8.6	8.7	8.9	8.9	8.9	8.6	8.1	7.2	6.0
	85	8.6	8.5	8.7	8.8	9.0	9.1	9.0	8.8	8.4	7.6	6.5
	90	8.7	8.6	8.7	8.9	9.1	9.2	9.2	9.1	8.7	8.0	7.1
	95	8.8	8.7	8.8	9.0	9.2	10.3	9.4	9.3	9.0	8.5	7.6
	100	9.0	8.9	9.0	9.2	9.4	9.6	9.7	9.7	9.4	9.0	8.2
	105	9.3	9.2	9.2	9.4	9.7	9.9	10.0	10.1	9.9	9.6	8.9
	110	-	9.6	9.6	9.8	10.1	10.3	10.5	10.6	10.5	10.3	9.7
	115	-	-	10.2	10.4	10.6	10.9	11.2	11.3	11.3	11.1	10.6

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4ME5M1-SN48K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		120.9	193.4
	65		121.9	210.7
	70		123.0	229.2
	75		124.0	248.8
	80		125.1	269.5
	85		126.1	291.3
	90		127.2	314.3
	95		128.3	338.4
	100		129.4	363.6
	105		130.6	389.9
	110		131.7	417.4
	115		132.9	445.9

-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 1505 SCFM

SA4ME5M1SN60K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	8.6	8.7	8.8	8.9	9.0	8.9	-	-	-	-	-
	65	9.0	9.0	9.2	9.3	9.3	9.3	9.0	8.6	-	-	-
	70	9.2	9.3	9.4	9.5	9.6	9.6	9.4	9.0	8.3	7.3	-
	75	9.4	9.4	9.5	9.7	9.8	9.8	9.7	9.3	8.7	7.8	6.5
	80	9.5	9.5	9.6	9.7	9.9	9.9	9.9	9.6	9.1	8.2	7.0
	85	9.6	9.5	9.7	9.8	10.0	10.1	10.0	9.8	9.4	8.6	7.5
	90	9.7	9.6	9.7	9.9	10.1	10.2	10.2	10.1	9.7	9.0	8.1
	95	9.8	9.7	9.8	10.0	10.2	10.4	10.4	10.3	10.0	9.5	8.6
	100	10.0	9.9	10.0	10.2	10.4	10.6	10.7	10.7	10.4	10.0	9.2
	105	10.3	10.2	10.2	10.4	10.7	10.9	11.0	11.1	10.9	10.6	9.9
	110	-	10.6	10.6	10.8	11.1	11.3	11.5	11.6	11.5	11.3	10.7
	115	-	-	11.2	11.4	11.6	11.9	12.2	12.3	12.3	12.1	11.6

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4ME5M1-SN60K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		116.6	200.5
	65		118.2	219.0
	70		119.8	238.3
	75		121.3	258.4
	80		122.7	279.4
	85		124.0	301.2
	90		125.2	323.8
	95		126.4	347.3
	100		127.5	371.6
	105		128.5	396.8
	110		129.4	422.8
	115		130.2	449.6

-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 1610 SCFM

SA4BF5M2SN24K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	7.5	7.1	6.4	5.7	4.8	3.7	-	-	-	-	-
	65	9.4	9.0	8.4	7.7	6.9	6.0	4.9	3.7	-	-	-
	70	11.0	10.7	10.2	9.5	8.8	7.9	7.0	5.9	4.6	3.2	-
	75	12.5	12.1	11.7	11.1	10.5	9.7	8.8	7.8	6.7	5.5	4.1
	80	13.7	13.4	13.0	12.5	11.9	11.3	10.5	9.6	8.6	7.5	6.2
	85	14.8	14.5	14.2	13.8	13.3	12.7	12.0	11.2	10.3	9.3	8.2
	90	15.7	15.5	15.2	14.9	14.5	13.9	13.3	12.7	11.9	11.0	10.1
	95	16.6	16.4	16.2	15.9	15.6	14.5	14.6	14.1	13.4	12.7	11.8
	100	17.5	17.3	17.1	16.9	16.6	16.3	15.9	15.4	14.8	14.2	13.5
	105	18.3	18.2	18.1	17.9	17.7	17.4	17.1	16.7	16.2	15.7	15.2
	110	-	19.1	19.0	18.9	18.7	18.5	18.3	18.0	17.7	17.3	16.8
	115	-	-	20.0	19.9	19.8	19.7	19.5	19.3	19.1	18.8	18.5

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4BF5M2-SN24K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		130.0	203.5
	65		130.6	220.8
	70		131.2	239.5
	75		131.9	259.7
	80		132.6	281.4
	85		133.3	304.6
	90		134.1	329.2
	95		134.9	355.4
	100		135.7	383.0
	105		136.6	412.0
	110		137.5	442.6
	115		138.4	474.6

-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 750 SCFM

SA4BF5M2SN36K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	7.1	7.2	7.1	7.0	6.8	6.6	-	-	-	-	-
	65	7.2	7.2	7.2	7.1	6.9	6.7	6.5	6.3	-	-	-
	70	7.4	7.5	7.4	7.3	7.1	7.0	6.8	6.6	6.5	6.4	-
	75	7.8	7.8	7.7	7.6	7.5	7.3	7.2	7.1	7.0	6.9	6.9
	80	8.2	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.5	7.6
	85	8.6	8.6	8.6	8.5	8.4	8.3	8.2	8.2	8.2	8.2	8.4
	90	9.1	9.1	9.0	9.0	8.9	8.8	8.8	8.8	8.8	9.0	9.2
	95	9.5	9.5	9.5	9.4	9.4	9.9	9.4	9.4	9.5	9.7	10.0
	100	9.9	9.9	9.9	9.9	9.9	9.9	9.9	10.0	10.2	10.4	10.8
	105	10.2	10.2	10.2	10.2	10.3	10.3	10.4	10.5	10.8	11.1	11.5
	110	-	10.5	10.5	10.5	10.6	10.6	10.8	11.0	11.3	11.7	12.2
	115	-	-	10.6	10.7	10.7	10.9	11.1	11.3	11.7	12.1	12.7

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4BF5M2-SN36K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		128.9	195.1
	65		129.5	211.4
	70		130.1	228.9
	75		130.8	247.5
	80		131.5	267.2
	85		132.2	288.0
	90		132.9	310.0
	95		133.7	333.1
	100		134.5	357.4
	105		135.3	382.8
	110		136.1	409.3
	115		137.0	437.0

-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 1115 SCFM

SA4BF5M2SN48K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	6.6	5.7	4.9	4.5	4.6	5.5	-	-	-	-	-
	65	9.1	8.2	7.3	6.7	6.5	7.1	8.5	11.0	-	-	-
	70	11.1	10.2	9.2	8.5	8.1	8.4	9.4	11.5	14.9	19.6	-
	75	12.7	11.8	10.8	9.9	9.4	9.4	10.2	11.9	14.7	19.0	24.8
	80	13.8	13.0	12.0	11.1	10.4	10.2	10.7	12.0	14.5	18.2	23.4
	85	14.6	13.9	13.0	12.0	11.3	10.9	11.1	12.1	14.2	17.4	22.1
	90	15.0	14.5	13.7	12.7	11.9	11.4	11.4	12.2	13.8	16.7	20.8
	95	15.2	14.9	14.2	13.3	12.5	12.0	11.7	12.2	13.5	16.0	19.7
	100	15.1	15.0	14.5	13.7	12.9	12.2	12.0	12.2	13.3	15.4	18.7
	105	14.9	15.1	14.7	14.1	13.3	12.6	12.3	12.4	13.2	15.0	17.9
	110	-	15.0	14.9	14.4	13.7	13.1	12.7	12.7	13.3	14.8	17.4
	115	-	-	15.0	14.8	14.2	13.6	13.2	13.1	13.6	14.8	17.1

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4BF5M2-SN48K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		124.9	203.1
	65		125.8	220.3
	70		126.6	238.7
	75		127.4	258.3
	80		128.2	279.0
	85		129.0	300.8
	90		129.7	323.8
	95		130.4	347.9
	100		131.2	373.2
	105		131.8	399.7
	110		132.5	427.3
	115		133.2	456.0

-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 1400 SCFM

SA4BF5M2SN60K

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

		INDOOR WET-BULB TEMPERATURE (°F)										
		57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	8.8	8.8	8.8	8.8	8.8	8.7	-	-	-	-	-
	65	9.9	9.9	9.8	9.8	9.8	9.8	9.8	9.8	-	-	-
	70	10.7	10.6	10.6	10.6	10.6	10.5	10.5	10.5	10.5	10.4	-
	75	11.2	11.2	11.2	11.1	11.1	11.1	11.0	11.0	11.0	10.9	10.9
	80	11.6	11.6	11.6	11.5	11.5	11.5	11.4	11.4	11.3	11.2	11.2
	85	12.0	11.9	11.9	11.9	11.8	11.8	11.7	11.6	11.6	11.5	11.4
	90	12.3	12.3	12.2	12.2	12.1	12.0	12.0	11.9	11.8	11.7	11.6
	95	12.7	12.7	12.6	12.6	12.5	12.9	12.3	12.2	12.1	12.0	11.9
	100	13.3	13.2	13.2	13.1	13.0	12.9	12.8	12.7	12.5	12.4	12.3
	105	14.0	14.0	13.9	13.8	13.7	13.6	13.5	13.3	13.2	13.0	12.9
	110	-	15.0	14.9	14.8	14.7	14.6	14.4	14.3	14.1	13.9	13.7
	115	-	-	16.3	16.2	16.1	15.9	15.8	15.6	15.4	15.2	14.9

ESTIMATED PRESSURES
(TXV IN COOLING MODE)

		SA4BF5M2-SN60K	SUCT. PRESS. (psig)	LIQ. PRESS. (psig)
OUTDOOR DRY-BULB TEMPERATURE (°F)	60		116.9	207.5
	65		117.7	225.0
	70		118.5	243.6
	75		119.3	263.3
	80		120.1	284.1
	85		120.8	306.0
	90		121.5	329.0
	95		122.2	353.1
	100		122.9	378.2
	105		123.6	404.5
	110		124.2	431.8
	115		124.8	460.3

-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 1545 SCFM

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