



It's time to get comfortable.

Johnson Controls Unitary Products
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DATE: June 6, 2011

YS-010-11

TO: All York Branch Service Managers
All York Distribution Service Managers
All Regional Managers

SUBJECT: YCJF / TCJF / TCGF Charging Charts

Johnson Controls Unitary Products has received product reports regarding refrigerant charge issues on YCJF / TCJF / TCGF models. Most of these complaints were isolated to the smaller tonnages (2.0, 2.5, and 3.0 ton), but particularly the 2.0 ton model. During the course of our investigation, Unitary Products discovered the following contributing factors that may result in noisy operation, high subcooling, and low superheat.

- 1) Johnson Controls Unitary Products had overcharged some of these models in the factory. The issue has since been resolved.
- 2) In some cases, field technicians had been overcharging the systems.
- 3) The charging chart data for the larger tonnages (3.5, 4.0, and 5.0 ton) was very close to actual data. However, the charging chart data for the smaller tonnages (2.0, 2.5, and 3.0 ton) showed significant variation from the actual values.

Based on this new information, Unitary Products has updated the charging charts for all 6 models in each brand. Comparisons of the previous and current charging charts are attached. Please see notes about these charts below.

- a) Previous charging chart values are shown on the left side, current charging chart values are shown on the right side.
- b) Values not highlighted in the current charts (right) match both the liquid pressure and subcooling values shown in the previous charts (left) exactly.
- c) Values highlighted in yellow in the current charts (right) are within 5 psig and 2°F of subcooling of the values shown in the previous charts (left). These discrepancies are small enough that charge modifications should not be required - specifically for the 3.5, 4.0, and 5.0 ton models.
- d) Values highlighted in red in the current charts (right) are more than 5 psig or 2°F of subcooling of the values shown in the previous charts (left). These discrepancies are large enough that charge modifications may be required - specifically for the 2.0, 2.5, and 3.0 ton models.
- e) The date that each charging chart was updated is indicated on the top row of each chart.

This service letter will provide one hour labor allowance to adjust the refrigerant charge on any affected units.

Mark Freund
Manager Residential Field Service
Johnson Controls Unitary Products

Kevin Keller
Director, Residential AC products
Johnson Controls Unitary Products

Previous Rating Plates

YCJF24S41S1 Subcooling Charging Chart (Before 02/17/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	216(4)	217(5)	219(3)	221(4)
70	231(5)	233(6)	235(7)	238(5)
75	250(5)	252(7)	254(7)	258(6)
80	271(7)	273(8)	276(9)	280(8)
85	295(8)	297(8)	300(11)	304(9)
90	322(9)	323(10)	326(12)	330(11)
95	351(10)	352(12)	355(12)	359(12)
100	383(11)	384(14)	386(14)	390(14)
105	417(12)	418(15)	420(15)	423(16)
110	454(15)	455(17)	456(17)	459(17)
115	493(18)	494(18)	495(18)	497(18)
120	535(18)	536(18)	536(18)	537(18)
125	565(18)	567(18)	570(18)	572(18)

Current Rating Plates

YCJF24S41S1 Subcooling Charging Chart (After 02/17/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	217(8)	216(8)	219(8)	222(6)
70	237(9)	238(9)	240(9)	242(7)
75	259(10)	262(10)	262(10)	264(9)
80	283(11)	287(12)	287(11)	287(10)
85	309(12)	314(13)	313(12)	312(11)
90	336(13)	343(14)	341(13)	339(12)
95	366(14)	373(15)	370(14)	368(13)
100	398(15)	405(16)	402(15)	398(14)
105	431(16)	439(17)	435(16)	430(15)
110	467(17)	474(18)	470(17)	464(16)
115	504(18)	511(19)	507(18)	499(17)
120	543(19)	550(20)	545(19)	536(18)
125	584(20)	590(21)	585(20)	574(19)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

YCJF30S41S1 Subcooling Charging Chart (Before 02/05/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	216(8)	218(8)	219(7)	221(5)
70	235(9)	237(9)	239(7)	241(7)
75	256(10)	258(10)	261(10)	263(9)
80	279(11)	280(11)	283(11)	286(10)
85	303(12)	305(11)	307(11)	309(11)
90	329(13)	331(11)	333(11)	334(11)
95	357(13)	358(11)	359(11)	360(12)
100	386(14)	387(13)	387(13)	387(13)
105	417(15)	417(15)	417(14)	416(14)
110	449(15)	449(16)	447(15)	445(14)
115	483(16)	482(16)	479(15)	475(15)
120	518(16)	515(17)	512(15)	507(15)
125	556(16)	551(17)	547(15)	539(14)

YCJF30S41S1 Subcooling Charging Chart (After 02/05/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	217(8)	218(8)	220(6)	222(3)
70	237(9)	238(9)	240(7)	242(5)
75	259(9)	260(10)	261(8)	264(6)
80	281(10)	282(10)	284(9)	286(8)
85	304(11)	305(11)	307(10)	310(9)
90	328(11)	329(12)	332(11)	334(10)
95	354(12)	355(12)	357(12)	359(11)
100	380(12)	381(13)	384(13)	385(12)
105	407(13)	408(13)	411(13)	412(12)
110	436(13)	437(13)	440(13)	440(12)
115	465(13)	466(13)	469(13)	469(13)
120	495(13)	496(13)	500(13)	499(13)
125	527(13)	528(13)	531(13)	529(12)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

YCJF36S41S1 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	221(8)	221(7)	223(7)	226(6)
70	243(9)	242(8)	245(7)	247(8)
75	265(10)	264(9)	267(10)	270(10)
80	289(11)	288(10)	290(10)	294(11)
85	313(11)	312(11)	315(11)	319(12)
90	338(12)	337(11)	340(11)	346(12)
95	364(12)	363(12)	367(12)	373(13)
100	392(12)	390(12)	395(13)	402(14)
105	420(12)	418(12)	424(13)	432(15)
110	449(12)	447(13)	454(14)	462(15)
115	479(13)	477(13)	485(14)	494(15)
120	510(12)	508(12)	517(14)	528(15)
125	541(12)	540(12)	550(13)	562(15)

YCJF36S41S1 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	225(9)	226(9)	228(8)	230(7)
70	244(10)	245(10)	247(9)	250(8)
75	265(10)	266(11)	268(10)	271(9)
80	288(11)	289(11)	291(11)	294(10)
85	313(12)	314(12)	316(12)	318(11)
90	340(13)	341(13)	343(12)	345(12)
95	369(14)	369(14)	371(13)	372(13)
100	399(15)	400(15)	401(14)	401(13)
105	431(15)	432(16)	433(15)	432(14)
110	465(16)	466(16)	467(16)	465(15)
115	501(17)	502(17)	503(17)	499(16)
120	538(18)	539(18)	541(18)	534(17)
125	578(19)	579(19)	580(20)	572(18)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

Previous Rating Plates

YCJF42S41S1 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	213(5)	214(6)	221(6)	220(5)
70	234(7)	235(7)	241(7)	239(5)
75	257(9)	258(8)	262(7)	260(6)
80	280(10)	281(9)	285(9)	282(7)
85	306(11)	306(11)	309(10)	306(8)
90	332(11)	333(11)	334(11)	330(10)
95	360(12)	360(11)	361(11)	356(10)
100	389(12)	389(13)	389(12)	384(11)
105	420(12)	420(14)	418(13)	413(11)
110	452(14)	452(15)	448(14)	443(13)
115	486(16)	485(16)	480(14)	474(13)
120	521(16)	519(16)	513(14)	507(13)
125	558(16)	555(16)	547(14)	541(13)

Current Rating Plates

YCJF42S41S1 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	213(5)	214(5)	215(4)	216(4)
70	234(7)	235(7)	236(5)	237(5)
75	257(8)	258(8)	258(6)	258(6)
80	280(9)	281(9)	281(8)	281(7)
85	306(11)	306(10)	305(9)	305(8)
90	332(12)	333(12)	331(10)	331(8)
95	360(13)	360(12)	358(11)	357(9)
100	389(14)	389(13)	386(11)	385(10)
105	420(14)	420(14)	416(12)	413(11)
110	452(15)	452(15)	447(13)	443(12)
115	486(16)	485(15)	479(14)	475(12)
120	521(16)	519(16)	513(14)	507(13)
125	558(16)	555(16)	548(15)	541(14)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

YCJF48S41S1 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	225(10)	228(11)	232(13)	239(14)
70	246(11)	249(11)	253(13)	260(15)
75	267(12)	270(12)	275(14)	281(15)
80	289(12)	292(12)	297(14)	304(15)
85	312(12)	315(12)	321(13)	327(15)
90	336(12)	339(12)	345(13)	351(15)
95	361(12)	364(12)	370(13)	376(14)
100	387(12)	390(12)	395(13)	403(14)
105	414(12)	416(11)	422(13)	430(14)
110	441(11)	444(11)	449(12)	458(14)
115	469(11)	472(11)	477(12)	486(14)
120	499(10)	501(10)	506(11)	516(13)
125	529(10)	531(10)	535(10)	547(12)

YCJF48S41S1 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	225(10)	228(11)	232(13)	239(15)
70	246(11)	249(11)	253(13)	260(15)
75	267(11)	270(11)	275(13)	281(15)
80	289(12)	292(11)	297(13)	304(15)
85	312(12)	315(11)	320(13)	327(15)
90	336(12)	339(11)	344(13)	351(15)
95	361(12)	364(11)	369(13)	376(15)
100	387(12)	390(11)	395(12)	403(15)
105	414(11)	416(11)	421(12)	430(14)
110	441(11)	444(11)	449(12)	458(14)
115	469(11)	472(10)	477(11)	486(14)
120	499(10)	501(10)	506(11)	516(13)
125	529(9)	531(9)	535(10)	547(12)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

YCJF60S41S1 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	233(13)	234(12)	232(12)	229(9)
70	253(15)	255(14)	253(12)	252(10)
75	276(16)	278(16)	276(15)	276(12)
80	300(17)	302(17)	300(16)	301(13)
85	326(18)	328(17)	326(16)	327(14)
90	353(18)	356(17)	353(17)	355(15)
95	383(18)	385(17)	382(17)	383(16)
100	414(18)	416(19)	412(19)	414(17)
105	448(18)	449(21)	444(20)	445(19)
110	483(18)	484(22)	477(21)	477(20)
115	519(23)	520(23)	512(22)	511(20)
120	558(23)	559(23)	548(22)	546(21)
125	599(24)	598(24)	586(22)	583(21)

YCJF60S41S1 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	233(13)	234(13)	232(12)	229(7)
70	253(14)	255(14)	253(13)	252(9)
75	276(15)	278(15)	276(14)	276(11)
80	300(16)	302(16)	300(15)	301(13)
85	326(17)	328(17)	326(16)	327(14)
90	353(18)	356(18)	353(17)	355(15)
95	383(19)	385(19)	382(18)	383(17)
100	414(20)	416(20)	412(19)	414(18)
105	448(21)	449(21)	444(20)	445(19)
110	483(22)	484(21)	477(20)	477(19)
115	519(22)	520(22)	512(21)	511(20)
120	558(23)	559(23)	548(22)	546(20)
125	599(24)	598(24)	586(22)	583(21)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

Previous Rating Plates

TCGF24S41S3 Subcooling Charging Chart (Before 02/17/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	216(4)	217(5)	219(3)	221(4)
70	231(5)	233(6)	235(7)	238(5)
75	250(5)	252(7)	254(7)	258(6)
80	271(7)	273(8)	276(9)	280(8)
85	295(8)	297(8)	300(11)	304(9)
90	322(9)	323(10)	326(12)	330(11)
95	351(10)	352(12)	355(12)	359(12)
100	383(11)	384(14)	386(14)	390(14)
105	417(12)	418(15)	420(15)	423(16)
110	454(15)	455(17)	456(17)	459(17)
115	493(18)	494(18)	495(18)	497(18)
120	535(18)	536(18)	536(18)	537(18)
125	565(18)	567(18)	570(18)	572(18)

Current Rating Plates

TCGF24S41S3 Subcooling Charging Chart (After 02/17/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	217(8)	216(8)	219(8)	222(6)
70	237(9)	238(9)	240(9)	242(7)
75	259(10)	262(10)	262(10)	264(9)
80	283(11)	287(12)	287(11)	287(10)
85	309(12)	314(13)	313(12)	312(11)
90	336(13)	343(14)	341(13)	339(12)
95	366(14)	373(15)	370(14)	368(13)
100	398(15)	405(16)	402(15)	398(14)
105	431(16)	439(17)	435(16)	430(15)
110	467(17)	474(18)	470(17)	464(16)
115	504(18)	511(19)	507(18)	499(17)
120	543(19)	550(20)	545(19)	536(18)
125	584(20)	590(21)	585(20)	574(19)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

TCGF30S41S3 Subcooling Charging Chart (Before 02/05/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	216(8)	218(8)	219(7)	221(5)
70	235(9)	237(9)	239(7)	241(7)
75	256(10)	258(10)	261(10)	263(9)
80	279(11)	280(11)	283(11)	286(10)
85	303(12)	305(11)	307(11)	309(11)
90	329(13)	331(11)	333(11)	334(11)
95	357(13)	358(11)	359(11)	360(12)
100	386(14)	387(13)	387(13)	387(13)
105	417(15)	417(15)	417(14)	416(14)
110	449(15)	449(16)	447(15)	445(14)
115	483(16)	482(16)	479(15)	475(15)
120	518(16)	515(17)	512(15)	507(15)
125	556(16)	551(17)	547(15)	539(14)

TCGF30S41S3 Subcooling Charging Chart (After 02/05/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	217(8)	218(8)	220(6)	222(3)
70	237(9)	238(9)	240(7)	242(5)
75	259(9)	260(10)	261(8)	264(6)
80	281(10)	282(10)	284(9)	286(8)
85	304(11)	305(11)	307(10)	310(9)
90	328(11)	329(12)	332(11)	334(10)
95	354(12)	355(12)	357(12)	359(11)
100	380(12)	381(13)	384(13)	385(12)
105	407(13)	408(13)	411(13)	412(12)
110	436(13)	437(13)	440(13)	440(12)
115	465(13)	466(13)	469(13)	469(13)
120	495(13)	496(13)	500(13)	499(13)
125	527(13)	528(13)	531(13)	529(12)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

TCGF36S41S3 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	221(8)	221(7)	223(7)	226(6)
70	243(9)	242(8)	245(7)	247(8)
75	265(10)	264(9)	267(10)	270(10)
80	289(11)	288(10)	290(10)	294(11)
85	313(11)	312(11)	315(11)	319(12)
90	338(12)	337(11)	340(11)	346(12)
95	364(12)	363(12)	367(12)	373(13)
100	392(12)	390(12)	395(13)	402(14)
105	420(12)	418(12)	424(13)	432(15)
110	449(12)	447(13)	454(14)	462(15)
115	479(13)	477(13)	485(14)	494(15)
120	510(12)	508(12)	517(14)	528(15)
125	541(12)	540(12)	550(13)	562(15)

TCGF36S41S3 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	225(9)	226(9)	228(8)	230(7)
70	244(10)	245(10)	247(9)	250(8)
75	265(10)	266(11)	268(10)	271(9)
80	288(11)	289(11)	291(11)	294(10)
85	313(12)	314(12)	316(12)	318(11)
90	340(13)	341(13)	343(12)	345(12)
95	369(14)	369(14)	371(13)	372(13)
100	399(15)	400(15)	401(14)	401(13)
105	431(15)	432(16)	433(15)	432(14)
110	465(16)	466(16)	467(16)	465(15)
115	501(17)	502(17)	503(17)	499(16)
120	538(18)	539(18)	541(18)	534(17)
125	578(19)	579(19)	580(20)	572(18)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

Previous Rating Plates

TCGF42S41S3 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	213(5)	214(6)	221(6)	220(5)
70	234(7)	235(7)	241(7)	239(5)
75	257(9)	258(8)	262(7)	260(6)
80	280(10)	281(9)	285(9)	282(7)
85	306(11)	306(11)	309(10)	306(8)
90	332(11)	333(11)	334(11)	330(10)
95	360(12)	360(11)	361(11)	356(10)
100	389(12)	389(13)	389(12)	384(11)
105	420(12)	420(14)	418(13)	413(11)
110	452(14)	452(15)	448(14)	443(13)
115	486(16)	485(16)	480(14)	474(13)
120	521(16)	519(16)	513(14)	507(13)
125	558(16)	555(16)	547(14)	541(13)

Current Rating Plates

TCGF42S41S3 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	213(5)	214(5)	215(4)	216(4)
70	234(7)	235(7)	236(5)	237(5)
75	257(8)	258(8)	258(6)	258(6)
80	280(9)	281(9)	281(8)	281(7)
85	306(11)	306(10)	305(9)	305(8)
90	332(12)	333(12)	331(10)	331(8)
95	360(13)	360(12)	358(11)	357(9)
100	389(14)	389(13)	386(11)	385(10)
105	420(14)	420(14)	416(12)	413(11)
110	452(15)	452(15)	447(13)	443(12)
115	486(16)	485(15)	479(14)	475(12)
120	521(16)	519(16)	513(14)	507(13)
125	558(16)	555(16)	548(15)	541(14)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

TCGF48S41S3 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	225(10)	228(11)	232(13)	239(14)
70	246(11)	249(11)	253(13)	260(15)
75	267(12)	270(12)	275(14)	281(15)
80	289(12)	292(12)	297(14)	304(15)
85	312(12)	315(12)	321(13)	327(15)
90	336(12)	339(12)	345(13)	351(15)
95	361(12)	364(12)	370(13)	376(14)
100	387(12)	390(12)	395(13)	403(14)
105	414(12)	416(11)	422(13)	430(14)
110	441(11)	444(11)	449(12)	458(14)
115	469(11)	472(11)	477(12)	486(14)
120	499(10)	501(10)	506(11)	516(13)
125	529(10)	531(10)	535(10)	547(12)

TCGF48S41S3 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	225(10)	228(11)	232(13)	239(15)
70	246(11)	249(11)	253(13)	260(15)
75	267(11)	270(11)	275(13)	281(15)
80	289(12)	292(11)	297(13)	304(15)
85	312(12)	315(11)	320(13)	327(15)
90	336(12)	339(11)	344(13)	351(15)
95	361(12)	364(11)	369(13)	376(15)
100	387(12)	390(11)	395(12)	403(15)
105	414(11)	416(11)	421(12)	430(14)
110	441(11)	444(11)	449(12)	458(14)
115	469(11)	472(10)	477(11)	486(14)
120	499(10)	501(10)	506(11)	516(13)
125	529(9)	531(9)	535(10)	547(12)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

TCGF60S41S3 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	233(13)	234(12)	232(12)	229(9)
70	253(15)	255(14)	253(12)	252(10)
75	276(16)	278(16)	276(15)	276(12)
80	300(17)	302(17)	300(16)	301(13)
85	326(18)	328(17)	326(16)	327(14)
90	353(18)	356(17)	353(17)	355(15)
95	383(18)	385(17)	382(17)	383(16)
100	414(18)	416(19)	412(19)	414(17)
105	448(18)	449(21)	444(20)	445(19)
110	483(18)	484(22)	477(21)	477(20)
115	519(23)	520(23)	512(22)	511(20)
120	558(23)	559(23)	548(22)	546(21)
125	599(24)	598(24)	586(22)	583(21)

TCGF60S41S3 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	233(13)	234(13)	232(12)	229(7)
70	253(14)	255(14)	253(13)	252(9)
75	276(15)	278(15)	276(14)	276(11)
80	300(16)	302(16)	300(15)	301(13)
85	326(17)	328(17)	326(16)	327(14)
90	353(18)	356(18)	353(17)	355(15)
95	383(19)	385(19)	382(18)	383(17)
100	414(20)	416(20)	412(19)	414(18)
105	448(21)	449(21)	444(20)	445(19)
110	483(22)	484(21)	477(20)	477(19)
115	519(22)	520(22)	512(21)	511(20)
120	558(23)	559(23)	548(22)	546(20)
125	599(24)	598(24)	586(22)	583(21)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

Previous Rating Plates

TCJF24S41S3 Subcooling Charging Chart (Before 02/17/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	216(4)	217(5)	219(3)	221(4)
70	231(5)	233(6)	235(7)	238(5)
75	250(5)	252(7)	254(7)	258(6)
80	271(7)	273(8)	276(9)	280(8)
85	295(8)	297(8)	300(11)	304(9)
90	322(9)	323(10)	326(12)	330(11)
95	351(10)	352(12)	355(12)	359(12)
100	383(11)	384(14)	386(14)	390(14)
105	417(12)	418(15)	420(15)	423(16)
110	454(15)	455(17)	456(17)	459(17)
115	493(18)	494(18)	495(18)	497(18)
120	535(18)	536(18)	536(18)	537(18)
125	565(18)	567(18)	570(18)	572(18)

Current Rating Plates

TCJF24S41S3 Subcooling Charging Chart (After 02/17/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	217(8)	216(8)	219(8)	222(6)
70	237(9)	238(9)	240(9)	242(7)
75	259(10)	262(10)	262(10)	264(9)
80	283(11)	287(12)	287(11)	287(10)
85	309(12)	314(13)	313(12)	312(11)
90	336(13)	343(14)	341(13)	339(12)
95	366(14)	373(15)	370(14)	368(13)
100	398(15)	405(16)	402(15)	398(14)
105	431(16)	439(17)	435(16)	430(15)
110	467(17)	474(18)	470(17)	464(16)
115	504(18)	511(19)	507(18)	499(17)
120	543(19)	550(20)	545(19)	536(18)
125	584(20)	590(21)	585(20)	574(19)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

TCJF30S41S3 Subcooling Charging Chart (Before 02/05/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	216(8)	218(8)	219(7)	221(5)
70	235(9)	237(9)	239(7)	241(7)
75	256(10)	258(10)	261(10)	263(9)
80	279(11)	280(11)	283(11)	286(10)
85	303(12)	305(11)	307(11)	309(11)
90	329(13)	331(11)	333(11)	334(11)
95	357(13)	358(11)	359(11)	360(12)
100	386(14)	387(13)	387(13)	387(13)
105	417(15)	417(15)	417(14)	416(14)
110	449(15)	449(16)	447(15)	445(14)
115	483(16)	482(16)	479(15)	475(15)
120	518(16)	515(17)	512(15)	507(15)
125	556(16)	551(17)	547(15)	539(14)

TCJF30S41S3 Subcooling Charging Chart (After 02/05/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	217(8)	218(8)	220(6)	222(3)
70	237(9)	238(9)	240(7)	242(5)
75	259(9)	260(10)	261(8)	264(6)
80	281(10)	282(10)	284(9)	286(8)
85	304(11)	305(11)	307(10)	310(9)
90	328(11)	329(12)	332(11)	334(10)
95	354(12)	355(12)	357(12)	359(11)
100	380(12)	381(13)	384(13)	385(12)
105	407(13)	408(13)	411(13)	412(12)
110	436(13)	437(13)	440(13)	440(12)
115	465(13)	466(13)	469(13)	469(13)
120	495(13)	496(13)	500(13)	499(13)
125	527(13)	528(13)	531(13)	529(12)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

TCJF36S41S3 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	221(8)	221(7)	223(7)	226(6)
70	243(9)	242(8)	245(7)	247(8)
75	265(10)	264(9)	267(10)	270(10)
80	289(11)	288(10)	290(10)	294(11)
85	313(11)	312(11)	315(11)	319(12)
90	338(12)	337(11)	340(11)	346(12)
95	364(12)	363(12)	367(12)	373(13)
100	392(12)	390(12)	395(13)	402(14)
105	420(12)	418(12)	424(13)	432(15)
110	449(12)	447(13)	454(14)	462(15)
115	479(13)	477(13)	485(14)	494(15)
120	510(12)	508(12)	517(14)	528(15)
125	541(12)	540(12)	550(13)	562(15)

TCJF36S41S3 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	225(9)	226(9)	228(8)	230(7)
70	244(10)	245(10)	247(9)	250(8)
75	265(10)	266(11)	268(10)	271(9)
80	288(11)	289(11)	291(11)	294(10)
85	313(12)	314(12)	316(12)	318(11)
90	340(13)	341(13)	343(12)	345(12)
95	369(14)	369(14)	371(13)	372(13)
100	399(15)	400(15)	401(14)	401(13)
105	431(15)	432(16)	433(15)	432(14)
110	465(16)	466(16)	467(16)	465(15)
115	501(17)	502(17)	503(17)	499(16)
120	538(18)	539(18)	541(18)	534(17)
125	578(19)	579(19)	580(20)	572(18)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

Previous Rating Plates

TCJF42S41S3 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	213(5)	214(6)	221(6)	220(5)
70	234(7)	235(7)	241(7)	239(5)
75	257(9)	258(8)	262(7)	260(6)
80	280(10)	281(9)	285(9)	282(7)
85	306(11)	306(11)	309(10)	306(8)
90	332(11)	333(11)	334(11)	330(10)
95	360(12)	360(11)	361(11)	356(10)
100	389(12)	389(13)	389(12)	384(11)
105	420(12)	420(14)	418(13)	413(11)
110	452(14)	452(15)	448(14)	443(13)
115	486(16)	485(16)	480(14)	474(13)
120	521(16)	519(16)	513(14)	507(13)
125	558(16)	555(16)	547(14)	541(13)

Current Rating Plates

TCJF42S41S3 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	213(5)	214(5)	215(4)	216(4)
70	234(7)	235(7)	236(5)	237(5)
75	257(8)	258(8)	258(6)	258(6)
80	280(9)	281(9)	281(8)	281(7)
85	306(11)	306(10)	305(9)	305(8)
90	332(12)	333(12)	331(10)	331(8)
95	360(13)	360(12)	358(11)	357(9)
100	389(14)	389(13)	386(11)	385(10)
105	420(14)	420(14)	416(12)	413(11)
110	452(15)	452(15)	447(13)	443(12)
115	486(16)	485(15)	479(14)	475(12)
120	521(16)	519(16)	513(14)	507(13)
125	558(16)	555(16)	548(15)	541(14)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

TCJF48S41S3 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	225(10)	228(11)	232(13)	239(14)
70	246(11)	249(11)	253(13)	260(15)
75	267(12)	270(12)	275(14)	281(15)
80	289(12)	292(12)	297(14)	304(15)
85	312(12)	315(12)	321(13)	327(15)
90	336(12)	339(12)	345(13)	351(15)
95	361(12)	364(12)	370(13)	376(14)
100	387(12)	390(12)	395(13)	403(14)
105	414(12)	416(11)	422(13)	430(14)
110	441(11)	444(11)	449(12)	458(14)
115	469(11)	472(11)	477(12)	486(14)
120	499(10)	501(10)	506(11)	516(13)
125	529(10)	531(10)	535(10)	547(12)

TCJF48S41S3 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	225(10)	228(11)	232(13)	239(15)
70	246(11)	249(11)	253(13)	260(15)
75	267(11)	270(11)	275(13)	281(15)
80	289(12)	292(11)	297(13)	304(15)
85	312(12)	315(11)	320(13)	327(15)
90	336(12)	339(11)	344(13)	351(15)
95	361(12)	364(11)	369(13)	376(15)
100	387(12)	390(11)	395(12)	403(15)
105	414(11)	416(11)	421(12)	430(14)
110	441(11)	444(11)	449(12)	458(14)
115	469(11)	472(10)	477(11)	486(14)
120	499(10)	501(10)	506(11)	516(13)
125	529(9)	531(9)	535(10)	547(12)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.

TCJF60S41S3 Subcooling Charging Chart (Before 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	233(13)	234(12)	232(12)	229(9)
70	253(15)	255(14)	253(12)	252(10)
75	276(16)	278(16)	276(15)	276(12)
80	300(17)	302(17)	300(16)	301(13)
85	326(18)	328(17)	326(16)	327(14)
90	353(18)	356(17)	353(17)	355(15)
95	383(18)	385(17)	382(17)	383(16)
100	414(18)	416(19)	412(19)	414(17)
105	448(18)	449(21)	444(20)	445(19)
110	483(18)	484(22)	477(21)	477(20)
115	519(23)	520(23)	512(22)	511(20)
120	558(23)	559(23)	548(22)	546(21)
125	599(24)	598(24)	586(22)	583(21)

TCJF60S41S3 Subcooling Charging Chart (After 01/22/11)				
Outdoor Ambient DB (°F)	Indoor Wet Bulb (°F)			
	57	62	67	72
	Liquid Pressure (psig) at Base Valve			
65	233(13)	234(13)	232(12)	229(7)
70	253(14)	255(14)	253(13)	252(9)
75	276(15)	278(15)	276(14)	276(11)
80	300(16)	302(16)	300(15)	301(13)
85	326(17)	328(17)	326(16)	327(14)
90	353(18)	356(18)	353(17)	355(15)
95	383(19)	385(19)	382(18)	383(17)
100	414(20)	416(20)	412(19)	414(18)
105	448(21)	449(21)	444(20)	445(19)
110	483(22)	484(21)	477(20)	477(19)
115	519(22)	520(22)	512(21)	511(20)
120	558(23)	559(23)	548(22)	546(20)
125	599(24)	598(24)	586(22)	583(21)

Delta less than or equal to 5 psig or 2F.

Delta greater than 5 psig or 2F.