STD-201RS Table 4a - IP Units - Closed Circuit (CC)

CLOSED CIRCUIT COOLER SERIES HFC

Condition Reference #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Wet Bulb °F	50	50	50	50	50	55	55	55	55	55	60	60	60	60	60	65	65	65	65	65	70	70	70	70	70
Range °F	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15
Approach °F	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10
Inlet Process Temperature °F	67	70	72	77	75	72	75	77	82	80	77	80	82	87	85	82	85	87	92	90	87	90	92	97	95
Outlet Process Temperature °F	57	60	62	65	60	62	65	67	70	65	67	70	72	75	70	72	75	77	80	75	77	80	82	85	80
HFC-505103	32.7	54.6	73.8	82.8	36.4	33.9	65.2	84.9	93.4	43.5	44.4	75.8	95.1	103.3	50.5	57.7	86.4	107.2	114.5	57.6	66.1	97.0	118.8	125.0	64.7
HFC-505105	33.7	59.1	77.0	87.1	39.4	38.5	70.3	89.4	98.7	48.9	49.4	81.5	101.4	110.3	54.3	60.3	92.7	114.2	122.1	61.8	71.2	103.9	127.3	133.8	69.3
HFC-505175	34.8	63.0	82.0	93.0	42.0	43.9	74.7	94.9	105.0	49.8	54.0	86.4	107.2	116.6	57.6	64.3	98.2	120.8	129.0	65.5	74.2	109.9	134.4	141.3	73.3
HFC-606105	54.2	82.9	107.0	119.5	55.3	66.6	99.1	124.5	136.2	66.1	77.5	115.5	141.3	152.0	77.0	91.7	131.9	161.5	170.1	87.9	103.9	148.2	179.7	186.7	98.8
HFC-606175	56.4	95.1	114.6	122.6	63.4	70.4	107.5	133.7	141.6	71.7	82.3	123.2	151.8	160.6	82.1	97.7	143.8	172.5	179.7	95.9	111.1	159.9	192.2	198.7	106.6
HFC-606110	65.1	90.4	126.2	132.8	60.3	75.5	113.5	145.0	152.2	75.7	91.2	132.6	162.3	171.9	85.7	105.8	147.6	182.6	191.3	101.4	118.8	166.5	203.0	210.8	111.0
HFC-707175	81.5	124.2	157.1	169.7	82.8	97.8	145.1	179.9	193.2	96.7	114.2	166.0	202.8	216.2	110.7	130.6	186.8	224.6	239.0	124.5	146.9	207.7	248.6	263.8	138.5
HFC-707175-SL	77.4	118.0	149.2	161.2	78.7	92.9	137.8	170.9	183.5	91.9	108.5	157.7	192.7	205.4	105.2	124.1	177.5	213.4	227.1	118.3	139.6	197.3	236.2	250.6	131.6
HFC-707110	86.0	133.9	163.7	177.1	89.3	103.4	156.0	189.2	201.9	104.0	121.6	178.1	214.5	226.6	118.7	139.4	200.2	240.3	251.4	133.5	157.2	222.3	265.5	276.2	148.2
HFC-707110-SL	81.7	127.2	155.5	168.2	84.8	98.2	148.2	179.7	191.8	98.8	115.5	169.2	203.8	215.3	112.8	132.4	190.2	228.3	238.8	126.8	149.3	211.2	252.2	262.4	140.8
HFC-707115	91.1	141.3	177.3	189.4	94.2	109.8	164.7	203.3	215.0	109.8	128.5	188.1	229.5	240.5	125.4	147.2	211.5	255.3	266.0	141.0	165.9	234.9	281.3	291.6	156.6
HFC-707115-SL	86.5	134.2	168.4	179.9	89.5	104.3	156.5	193.1	204.3	104.3	122.1	178.7	218.0	228.5	119.1	139.8	200.9	242.5	252.7	134.0	157.6	223.2	267.2	277.0	148.8
HFC-808175	89.9	158.8	199.3	224.6	105.9	118.3	191.5	237.0	259.1	127.6	146.7	224.1	274.6	293.6	149.4	175.2	256.9	312.2	328.1	171.3	203.7	289.3	349.4	362.5	192.9
HFC-808175-SL	85.4	85.4	85.4	85.4	85.4	112.4	181.9	225.2	246.1	121.2	139.4	212.9	260.9	278.9	141.9	166.4	244.1	296.6	311.7	162.7	193.5	274.8	331.9	344.4	183.3
HFC-808110	100.0	163.8	210.5	227.3	109.2	133.3	203.4	252.2	270.0	135.6	161.7	241.0	294.7	312.7	160.7	190.2	278.5	338.1	355.3	185.7	218.7	316.1	380.1	398.0	210.7
HFC-808110-SL	95.0	155.6	200.0	215.9	103.7	126.6	193.2	239.6	256.5	128.8	153.6	229.0	280.0	297.1	152.7	180.7	264.6	321.2	337.5	176.4	207.8	300.3	361.1	378.1	200.2
HFC-808115	115.0	170.4	217.9	241.7	113.6	161.2	210.4	262.6	280.7	140.3	186.6	252.4	313.5	331.0	168.3	215.6	294.5	360.9	381.3	196.3	242.5	336.5	411.2	431.4	224.3
HFC-808115-SL	109.3	161.9	207.0	229.6	107.9	153.1	199.9	249.5	266.7	133.3	177.3	239.8	297.8	314.5	159.9	204.8	279.8	342.9	362.2	186.5	230.4	319.7	390.6	409.8	213.1
HFC-810175	123.8	203.3	252.7	267.3	135.5	154.2	241.2	296.3	310.5	160.8	186.9	281.0	343.3	359.2	187.3	214.7	316.5	382.9	393.3	211.0	245.1	354.5	426.6	439.2	236.3
HFC-810175-SL	117.6	193.1	240.1	253.9	128.7	146.5	229.1	281.5	295.0	152.8	177.6	267.0	326.1	341.2	177.9	204.0	300.7	363.8	373.6	200.5	232.8	336.8	405.3	417.2	224.5
HFC-810110	133.7	224.8	276.6	304.5	149.9	165.9	263.9	321.5	346.5	175.9	198.7	305.0	367.7	388.3	203.3	229.1	340.0	410.8	430.0	226.7	261.6	380.0	454.9	475.0	253.3
HFC-810110-SL	127.0	213.6	262.8	289.3	142.4	157.6	250.7	305.4	329.2	167.1	188.8	289.8	349.3	368.9	193.1	217.6	323.0	390.3	408.5	215.4	248.5	361.0	432.2	451.3	240.6
HFC-810115	178.6	276.2	327.6	346.3	184.1	210.0	315.3	373.6	391.4	210.2	242.8	355.0	419.9	436.7	236.7	272.7	395.0	466.7	482.5	263.3	302.0	430.0	509.1	525.0	286.7
HFC-810115-SL	169.7	262.4	311.2	329.0	174.9	199.5	299.5	354.9	371.8	199.7	230.7	337.3	398.9	414.9	224.9	259.1	375.3	443.4	458.4	250.1	286.9	408.5	483.6	498.8	272.4
HFC-810120	182.9	281.6	344.5	389.2	187.7	214.5	319.3	394.6	431.4	214.8	246.2	365.0	444.1	473.3	243.3	281.2	408.0	494.2	515.0	272.0	317.4	451.5	544.2	558.3	301.0
HFC-810120-SL	173.8	267.5	327.3	369.7	178.3	203.8	303.3	374.9	409.8	204.1	233.9	346.8	421.9	449.6	231.1	267.1	387.6	469.5	489.3	258.4	301.5	428.9	517.0	530.4	286.0
HFC-812110	157.2	248.6	308.4	334.1	165.7	191.2	292.0	356.8	380.1	194.6	226.0	336.0	405.1	426.7	224.0	259.3	377.5	453.8	471.3	251.7	291.7	422.0	502.4	520.2	281.3
HFC-812110-SL	149.3	236.2	293.0	317.4	157.4	181.6	277.4	339.0	361.1	184.9	214.7	319.2	384.8	405.4	212.8	246.3	358.6	431.1	447.7	239.1	277.1	400.9	477.3	494.2	267.2
HFC-812115	183.1	278.6	338.4	367.3	185.7	218.2	325.1	391.4	419.9	216.7	254.6	373.0	445.5	468.3	248.7	287.6	417.5	497.5	515.0	278.3	321.1	462.0	549.6	562.5	308.0
HFC-812115-SL	173.9	264.7	321.5	348.9	176.4	207.3	308.8	371.8	398.9	205.9	241.9	354.4	423.2	444.9	236.3	273.2	396.6	472.6	489.3	264.4	305.0	438.9	522.1	534.4	292.6
HFC-812120	210.3	326.4	396.3	421.6	217.6	247.0	372.0	448.1	469.4	248.0	284.8	419.5	501.2	519.2	279.7	320.4	462.5	551.4	565.8	308.3	354.7	507.2	602.2	612.5	338.1
HFC-812120-SL	199.8	310.1	376.5	400.5	206.7	234.7	353.4	425.7	445.9	235.6	270.6	398.5	476.1	493.2	265.7	304.4	439.4	523.8	537.5	292.9	337.0	481.8	572.1	581.9	321.2
HFC-812125	228.5	358.2	424.1	453.8	238.8	267.9	405.3	479.5	503.1	270.2	307.6	448.5	535.4	552.7	299.0	347.3	498.5	589.8	601.7	332.3	384.9	548.2	646.9	652.9	365.5
HFC-812125-SL	217.1	340.3	402.9	431.1	226.9	254.5	385.0	455.5	477.9	256.7	292.2	426.1	508.6	525.1	284.1	329.9	473.6	560.3	571.6	315.7	365.7	520.8	614.6	620.3	347.2
HFC-510203	62.1	103.7	140.2	157.4	69.2	64.4	123.9	161.3	177.4	82.6	84.4	144.0	180.6	196.3	96.0	109.6	164.2	203.8	2 17.5	109.4	125.6	184.3	225.7	237.5	122.9
HFC-510205	64.0	112.3	146.3	165.5	74.9	73.2	133.6	169.8	187.6	89.1	93.9	154.9	192.7	209.6	103.2	114.6	176.1	216.9	231.9	117.4	135.3	197.4	241.8	254.1	131.6
HFC-510275	66.1	119.7	155.8	176.7	79.8	83.5	141.9	180.3	199.5	94.6	102.6	164.2	203.7	221.5	109.4	122.2	186.6	229.5	245.2	124.4	141.0	208.8	255.3	268.4	139.2
HFC-612205	103.0	157.5	203.3	227.1	105.0	126.5	188.4	236.5	258.8	125.6	147.3	219.5	268.5	288.8	146.3	174.2	250.6	306.8	323.2	167.1	197.4	281.6	341.3	354.7	187.7
HFC-612275	107.2	180.7	217.7	232.9	120.5	133.8	204.3	254.0	269.0	136.2	156.4	234.1	288.4	305.1	156.1	185.6	273.2	327.8	341.4	182.1	211.1	303.8	365.3	377.5	202.5
HFC-612210	123.7	171.8	239.8	252.2	114.5	143.5	215.7	275.4	289.2	143.8	173.3	251.9	308.4	326.6	168.0	201.0	280.4	346.9	363.5	187.0	225.7	316.4	385.7	400.4	210.9
HFC-714275	154.9	236.0	298.5	322.4	157.3	185.9	275.7	341.8	367.0	183.8	217.0	315.4	385.3	410.7	210.3	248.1	354.9	426.8	454.1	236.6	279.1	394.6	472.3	501.1	263.1
HFC-714275-SL	147.2	224.2	283.6	306.3	149.4	176.6	261.9	324.7	348.7	174.6	206.1	299.6	366.0	390.2	199.8	235.7	337.2	405.5	431.4	224.8	265.1	374.9	448.7	476.0	249.9
HFC-714210	163.4	254.4	311.0	336.5	169.6	196.4	296.4	359.5	383.5	197.6	231.0	338.4	407.6	430.5	225.6	264.9	380.4	456.6	477.7	253.6	298.7	422.4	504.5	524.7	281.6
HFC-714210-SL	155.2	241.7	295.5	319.7	161.1	186.6	281.6	341.5	364.3	187.7	219.5	321.5	387.2	409.0	214.3	251.7	361.4	433.8	453.8	240.9	283.8	401.3	479.3	498.5	267.5
HFC-714215	173.1	268.5	336.9	359.9	179.0	208.6	312.9	386.3	408.4	208.6	244.2	357.4	436.1	457.0	238.3	279.7	401.9	485.1	505.4	267.9	315.2	446.3	534.5	554.0	297.5
HFC-714215-SL	164.4	255.1	320.1	341.9	170.1	198.2	297.3	367.0	388.0	198.2	231.9	339.5	414.3	434.2	226.4	265.7	381.8	460.8	480.1	254.5	299.4	424.0	507.8	526.3	282.6
HFC-816275	170.8	301.7	378.7	426.7	201.1	224.8	363.8	450.4	492.2	242.5	278.8	425.8	521.7	557.8	283.9	332.9	488.1	593.2	623.4	325.4	387.0	549.7	663.8	688.8	366.4
HFC-816275-SL	162.3	286.6	359.8	405.4	191.0	213.6	345.6	427.9	467.6	230.4	264.9	404.5	495.6	529.9	269.7	316.3	463.7	563.5	592.2	309.1	367.7	522.2	630.6	654.4	348.1
HFC-816210	190.0	311.2	400.0	431.9	207.5	253.2	386.5	479.2	513.0	257.6	307.2	457.9	559.9	594.1	305.3	361.4	529.2	642.3	675.1	352.8	415.5	600.6	722.2	756.2	400.4
HFC-816210-SL	180.5	295.6	380.0	410.3	197.1	240.5	367.2	455.2	487.4	244.7	291.9	435.0	531.9	564.4	290.0	343.3	502.7	610.2	641.3	335.2	394.7	570.6	686.1	718.4	380.4
HFC-816215	218.5	323.8	414.0	459.2	215.8	306.3	399.8	498.9	533.4	266.5	354.5	479.6	595.6	628.9	319.7	409.6	559.6	685.7	724.4	373.0	460.8	639.4	781.3	819.7	426.2
HFC-816215-SL	207.6	307.6	393.3	436.2	205.0	291.0	379.8	474.0	506.7	253.2	336.8	455.6	565.8	597.5	303.7	389.1	531.6	651.4	688.2	354.4	437.8	607.4	742.2	778.7	404.9
HFC-819275	252.4	389.1	482.6	530.0	259.4	308.4	462.1	565.2	607.4	308.1	366.5	540.5	653.8	689.2	360.3	421.4	605.0	729.8	761.7	403.3	472.1	678.5	806.5	832.5	452.3
HFC-819275-SL	239.8	369.6	458.5	503.5	246.4	293.0	439.0	536.9	577.0	292.7	348.2	513.5	621.1	654.7	342.3	400.3	574.8	693.3	723.6	383.1	448.5	644.6	766.2	790.9	429.7
HFC-819210	294.7	442.1	539.1	566.8	294.7	351.0	516.2	624.5	650.6	344.1	410.7	590.0	715.5	735.0	491.7	462.0	665.2	794.6	820.0	443.5	516.8	737.0	876.5	898.3	491.3
HFC-819210-SL	280.0	420.0	512.1	538.5	280.0	333.5	490.4	593.3	618.1	326.9	390.2	560.5	679.7	698.3	467.1	438.9	631.9	754.9	779.0	421.3	491.0	700.2	832.7	853.4	466.7
HFC-819215	343.3	516.4	622.2	663.0	344.3	404.2	593.4	711.1	746.4	395.6	470.8	675.8	806.5	833.3	450.5	521.3	742.8	884.0	910.4	495.2	585.9	821.0	973.1	993.3	547.3
HFC-819215-SL	326.1	490.6	591.1	629.9	327.1	384.0	563.7	675.5	709.1	375.8	447.3	642.0	766.2	791.6	428.0	495.2	705.7	839.8	864.9	470.4	556.6	780.0	924.4	943.6	519.9
HFC-819220	386.0	567.3	675.7	710.3	378.2	446.2	644.4	765.1	794.8	429.6	508.1	724.0	860.5	882.9	482.7	567.0	794.2	937.5	961.7	529.5	625.9	875.0	1032.1	1050.0	583.3
HFC-819220-SL	366.7	538.9	641.9	674.8	359.3	423.9	612.2	726.8	755.1	408.1	482.7	687.8	817.5	838.8	458.6	538.7	754.5	890.6	913.6	503.0	594.6	831.3	980.5	997.5	554.1
HFC-822275	277.0	427.4	527.1	570.3	284.9	337.0	506.5	617.6	657.0	337.7	395.6	585.6	716.1	751.7	390.4	455.7	660.0	795.2	826.7	440.0	515.4	740.0	885.5	913.8	493.3
HFC-822275-SL	263.2	406.0	500.7	541.8	270.7	320.2	481.2	586.7	624.2	320.8	375.8	556.3	680.3	714.1	370.9	432.9	627.0	755.4	785.4	418.0	489.6	703.0	841.2	868.1	468.6
HFC-822210	320.7	477.8	588.4	629.7	318.5	382.7	560.2	681.4	718.4	373.5	448.5	652.0	781.4	813.3	434.7	502.7	721.8	865.3	893.8	481.2	564.7	802.4	952.4	977.1	534.9

STD-201RS Table 4a - IP Units - Closed Circuit (CC)

CLOSED CIRCUIT COOLER SERIES HFC

Condition Reference #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Wet Bulb °F	50	50	50	50	50	55	55	55	55	55	60	60	60	60	60	65	65	65	65	65	70	70	70	70	70
Range °F	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15
Approach °F	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10
Inlet Process Temperature °F	67	70	72	77	75	72	75	77	82	80	77	80	82	87	85	82	85	87	92	90	87	90	92	97	95
Outlet Process Temperature °F	57	60	62	65	60	62	65	67	70	65	67	70	72	75	70	72	75	77	80	75	77	80	82	85	80
HFC-822210-SL	304.7	453.9	559.0	598.2	302.6	363.6	532.2	647.3	682.5	354.8	426.1	619.4	742.3	772.6	413.0	477.6	685.7	822.0	849.1	457.1	536.5	762.3	904.8	928.2	508.2
HFC-822215	381.6	558.3	673.4	721.5	372.2	445.5	643.2	771.3	811.8	428.8	511.5	732.0	873.4	907.1	488.0	572.8	808.0	963.8	990.0	538.7	633.7	898.0	1062.2	1078.3	598.7
HFC-822215-SL	362.5	530.4	639.7	685.4	353.6	423.2	611.0	732.7	771.2	407.4	485.9	695.4	829.7	861.7	463.6	544.2	767.6	915.6	940.5	511.8	602.0	853.1	1009.1	1024.4	568.8
HFC-822220	429.9	633.3	751.5	792.6	422.2	496.2	718.1	850.9	885.2	478.8	566.2	806.5	953.6	979.2	537.7	627.4	885.0	1047.1	1071.7	590.0	690.7	970.0	1147.9	1162.5	646.7
HFC-822220-SL	408.4	601.6	713.9	753.0	401.1	471.4	682.2	808.4	840.9	454.9	537.9	766.2	905.9	930.2	510.8	596.0	840.8	994.7	1018.1	560.5	656.2	921.5	1090.5	1104.4	614.4
HFC-827210	331.9	492.8	606.0	674.1	328.5	375.9	586.3	714.7	774.1	390.8	448.4	685.5	825.7	879.2	457.0	525.3	769.0	933.7	971.3	512.7	592.4	864.5	1035.3	1068.8	576.3
HFC-827210-SL	315.3	468.2	575.7	640.4	312.1	357.1	557.0	679.0	735.4	371.3	426.0	651.2	784.4	835.2	434.2	499.0	730.6	887.0	922.7	487.1	562.8	821.3	983.5	1015.4	547.5
HFC-827215	408.8	631.2	756.5	813.8	420.8	484.3	729.4	871.7	920.7	486.3	562.1	832.7	991.5	1031.7	555.1	636.1	924.8	1100.2	1131.7	616.5	704.4	1018.0	1209.5	1236.7	678.7
HFC-827215-SL	388.4	599.6	718.7	773.1	399.8	460.1	692.9	828.1	874.7	462.0	534.0	791.1	941.9	980.1	527.3	604.3	878.6	1045.2	1075.1	585.7	669.2	967.1	1149.0	1174.9	644.8
HFC-827220	461.4	711.8	856.8	905.8	474.5	541.6	812.2	972.5	1013.4	541.5	620.4	915.5	1091.7	1125.8	610.3	706.7	1012.0	1202.1	1222.5	674.7	779.7	1110.0	1317.5	1337.5	740.0
HFC-827220-SL	438.3	676.2	814.0	860.5	450.8	514.5	771.6	923.9	962.7	514.4	589.4	869.7	1037.1	1069.5	579.8	671.4	961.4	1142.0	1161.4	641.0	740.7	1054.5	1251.6	1270.6	703.0
HFC-827225	523.5	781.9	930.4	964.0	521.3	602.7	882.0	1047.8	1075.6	588.0	680.8	978.5	1165.6	1188.3	652.3	763.0	1090.0	1285.1	1302.5	726.7	839.3	1178.0	1397.5	1408.3	785.3
HFC-827225-SL	497.3	742.8	883.9	915.8	495.2	572.6	837.9	995.4	1021.8	558.6	646.8	929.6	1107.3	1128.9	619.7	724.9	1035.5	1220.8	1237.4	690.4	797.3	1119.1	1327.6	1337.9	746.0
HFC-1010403	117.7	196.6	265.7	298.2	131.0	147.7	234.7	305.7	336.2	195.6	177.8	272.8	342.2	372.0	181.8	207.7	311.0	386.1	412.1	207.4	238.0	349.2	427.7	450.0	232.8
HFC-1010405	121.3	212.8	277.2	313.5	141.8	138.8	253.1	321.8	355.4	168.7	177.8	293.4	365.2	397.2	195.6	217.1	333.7	411.0	439.5	222.5	256.3	374.0	458.2	481.5	249.4
HFC-1010475	125.3	226.8	295.2	334.8	151.2	158.1	268.9	341.7	377.9	179.3	194.4	311.0	385.9	419.6	207.4	231.5	353.5	434.9	464.5	235.7	267.1	395.6	483.7	508.5	263.8
HFC-1212405	195.1	298.4	385.2	430.2	199.0	239.6	356.9	448.2	490.4	237.9	279.0	415.8	508.7	547.2	277.2	330.1	474.8	581.3	612.3	316.6	374.0	533.5	646.8	672.0	355.7
HFC-1212475	203.0	342.4	412.6	441.3	228.2	253.5	387.0	481.3	509.8	258.0	296.3	457.9	546.5	578.1	305.3	351.7	517.7	621.0	646.8	345.1	400.0	575.6	692.1	715.2	383.8
HFC-1212410	234.4	325.4	454.3	477.9	217.0	271.8	394.2	521.9	547.9	262.8	328.3	463.0	584.3	618.9	308.6	380.9	531.4	657.3	688.8	354.2	427.7	599.4	730.8	758.7	399.6
HFC-1414475	293.4	447.1	565.6	610.8	298.1	352.2	522.4	647.7	695.4	348.2	411.1	597.6	730.1	778.2	398.4	470.2	672.5	808.6	860.4	448.3	528.8	747.7	895.0	949.5	498.5
HFC-1414475-SL	278.7	424.7	537.3	580.3	283.2	334.6	496.3	615.3	660.6	330.8	390.5	567.7	693.6	739.3	378.5	446.7	638.9	768.2	817.4	425.9	502.4	710.3	850.3	902.0	473.6
HFC-1414410	309.6	482.0	589.3	637.5	321.4	372.1	561.5	681.1	726.7	374.4	437.8	641.2	772.2	815.7	427.4	501.8	720.7	865.1	905.1	480.5	565.9	800.3	955.8	994.2	533.5
HFC-1414410-SL	294.1	457.9	559.8	605.6	305.3	353.5	533.4	647.0	690.4	355.7	415.9	609.1	733.6	774.9	406.0	476.7	684.7	821.8	859.8	456.5	537.6	760.3	908.0	944.5	506.8
HFC-1414415	328.0	508.7	638.3	681.9	339.1	395.3	592.8	731.9	773.9	395.2	462.6	677.2	826.2	865.8	451.4	529.9	761.4	919.1	957.6	507.6	597.2	845.6	1012.7	1049.7	563.8
HFC-1414415-SL	311.6	483.3	606.4	647.8	322.1	375.5	563.2	695.3	735.2	375.4	439.5	643.3	784.9	822.5	428.8	503.4	723.3	873.1	909.7	482.2	567.3	803.3	962.1	997.2	535.6
HFC-1616475	323.6	571.7	717.5	808.5	381.1	425.9	689.3	853.4	932.6	459.5	528.1	806.8	988.6	1056.9	537.8	630.7	924.8	1124.0	1181.1	616.6	733.3	1041.5	1257.7	1305.0	694.3
HFC-1616475-SL	307.4	543.1	681.6	768.1	362.0	404.6	654.8	810.7	886.0	436.5	501.7	766.5	939.2	1004.1	510.9	599.2	878.6	1067.8	1122.0	585.8	696.6	989.4	1194.8	1239.8	659.6
HFC-1616410	360.0	589.7	757.8	818.4	393.1	479.7	732.3	907.9	972.0	488.2	582.1	867.6	1060.8	1125.6	578.4	684.7	1002.6	1217.0	1279.2	668.4	787.3	1138.0	1368.4	1432.8	758.6
HFC-1616410-SL	342.0	560.2	719.9	777.5	373.4	455.7	695.7	862.5	923.4	463.8	553.0	824.2	1007.8	1069.3	549.5	650.5	952.5	1156.2	1215.2	635.0	747.9	1081.1	1300.0	1361.2	720.7
HFC-1616415	414.0	613.4	784.4	870.0	409.0	580.3	757.5	945.4	1010.7	505.0	671.8	908.6	1128.5	1191.6	605.8	776.2	1060.2	1299.2	1372.5	706.8	873.0	1211.4	1480.3	1553.1	807.6
HFC-1616415-SL	393.3	582.7	745.2	826.5	388.6	551.3	719.6	898.1	960.2	479.8	638.2	863.2	1072.1	1132.0	575.5	737.4	1007.2	1234.2	1303.9	671.5	829.4	1150.8	1406.3	1475.4	767.2
HFC-1619475	414.4	732.7	891.2	1000.6	488.5	534.0	878.0	1062.4	1158.9	585.3	658.8	1015.6	1245.7	1329.2	677.1	768.1	1170.0	1399.2	1470.0	780.0	891.0	1302.0	1569.7	1628.3	868.0
HFC-1619475-SL	393.7	696.1	846.6	950.6	464.1	507.3	834.1	1009.3	1101.0	556.0	625.9	964.8	1183.4	1262.7	643.2	729.7	1111.5	1329.2	1396.5	741.0	846.5	1236.9	1491.2	1546.9	824.6
HFC-1619410	466.9	842.1	986.9	1114.5	561.4	591.8	990.1	1166.6	1277.2	660.1	719.5	1130.0	1351.8	1450.0	753.3	841.5	1288.0	1526.3	1600.0	858.7	956.6	1424.0	1695.3	1754.2	949.3
HFC-1619410-SL	443.6	800.0	937.6	1058.8	533.3	562.2	940.6	1108.3	1213.3	627.1	683.5	1073.5	1284.2	1377.5	715.6	799.4	1223.6	1450.0	1520.0	815.8	908.8	1352.8	1610.5	1666.5	901.8
HFC-1619415	654.1	1004.2	1219.8	1308.7	669.4	774.4	1158.9	1398.9	1473.8	772.6	901.0	1320.0	1585.4	1645.8	880.0	1012.2	1468.0	1754.8	1800.0	978.7	1134.5	1615.0	1929.6	1966.7	1076.7
HFC-1619415-SL	621.4	954.0	1158.8	1243.3	635.9	735.7	1101.0	1329.0	1400.1	734.0	856.0	1254.0	1506.1	1563.5	836.0	961.6	1394.6	1667.1	1710.0	929.8	1077.8	1534.3	1833.1	1868.4	1022.9
HFC-1619420	725.4	1101.9	1340.3	1417.4	734.6	850.8	1260.7	1522.3	1586.4	840.4	979.6	1418.0	1710.7	1763.3	945.3	1101.2	1583.0	1882.7	1920.8	1055.3	1226.6	1735.0	2062.1	2089.2	1156.7
HFC-1619420-SL	689.1	1046.8	1273.3	1346.5	697.9	808.3	1197.7	1446.2	1507.1	798.4	930.6	1347.1	1625.2	1675.1	898.0	1046.1	1503.9	1788.6	1824.8	1002.5	1165.3	1648.3	1959.0	1984.7	1098.9
HFC-1622475	439.4	773.1	957.8	1074.4	515.4	566.8	933.5	1144.8	1247.9	622.4	702.1	1107.5	1345.3	1434.6	738.3	812.3	1245.0	1510.4	1590.0	830.0	952.0	1408.0	1698.2	1758.3	938.7
HFC-1622475-SL	417.4	734.4	909.9	1020.7	489.6	538.5	886.8	1087.6	1185.5	591.3	667.0	1052.1	1278.0	1362.9	701.4	771.7	1182.8	1434.9	1510.5	788.5	904.4	1337.6	1613.3	1670.4	891.8
HFC-1622410	523.9	919.6	1095.2	1218.3	613.1	654.7	1079.0	1288.1	1393.7	719.3	796.5	1240.0	1484.0	1577.1	826.7	910.2	1400.0	1680.2	1740.8	933.3	1052.2	1551.0	1855.8	1909.2	1034.0
HFC-1622410-SL	497.7	873.6	1040.4	1157.4	582.4	622.0	1025.1	1223.7	1324.0	683.3	756.7	1178.0	1409.8	1498.2	785.4	864.7	1330.0	1596.2	1653.8	886.6	999.6	1473.5	1763.0	1813.7	982.3
HFC-1622415	712.6	1113.3	1339.9	1430.2	742.2	847.7	1282.4	1537.9	1615.0	854.9	991.7	1464.0	1747.3	1810.0	976.0	1112.1	1612.0	1927.8	1979.2	1074.7	1245.0	1782.0	2123.3	2162.5	1188.0
HFC-1622415-SL	677.0	1057.6	1272.9	1358.7	705.1	805.3	1218.3	1461.0	1534.3	812.2	942.1	1390.8	1659.9	1719.5	927.2	1056.5	1531.4	1831.4	1880.2	1021.0	1182.8	1692.9	2017.1	2054.4	1128.6
HFC-1622420	823.2	1262.7	1512.6	1587.6	841.8	961.7	1433.9	1712.2	1775.2	955.9	1106.4	1612.0	1917.3	1968.3	1074.7	1240.4	1770.0	2111.6	2159.2	1180.0	1364.9	1941.5	2302.1	2326.7	1294.3
HFC-1622420-SL	782.0	1199.6	1437.0	1508.2	799.7	913.6	1362.2	1626.6	1686.4	908.1	1051.1	1531.4	1821.4	1869.9	1021.0	1178.4	1681.5	2006.0	2051.2	1121.0	1296.7	1844.4	2187.0	2210.4	1229.6
HFC-1627410	599.1	990.1	1194.7	1311.5	660.1	741.0	1171.3	1410.1	1513.9	780.9	882.8	1365.0	1634.2	1733.3	910.0	1032.5	1529.5	1842.9	1910.0	1019.7	1160.4	1702.0	2042.6	2106.7	1134.7
HFC-1627410-SL	569.1	940.6	1135.0	1245.9	627.1	704.0	1112.7	1339.6	1438.2	741.9	838.7	1296.8	1552.5	1646.6	864.5	980.9	1453.0	1750.8	1814.5	968.7	1102.4	1616.9	1940.5	2001.4	1078.0
HFC-1627415	794.9	1211.6	1481.7	1577.4	807.8	942.8	1405.0	1704.6	1787.5	936.7	1106.2	1610.0	1945.2	2008.3	1073.3	1230.7	1787.0	2140.4	2200.0	1191.3	1384.8	1973.5	2357.6	2406.7	1315.7
HFC-1627415-SL	755.2	1151.0	1407.6	1498.5	767.4	895.7	1334.8	1619.4	1698.1	889.9	1050.9	1529.5	1847.9	1907.9	1019.6	1169.2	1697.7	2033.4	2090.0	1131.7	1315.6	1874.8	2239.7	2286.4	1249.9
HFC-1627420	892.9	1371.5	1653.6	1737.4	914.4	1048.6	1567.7	1881.5	1952.0	1045.1	1214.9	1773.5	2123.7	2183.3	1182.3	1356.3	1955.0	2329.6	2370.0	1303.3	1509.1	2149.0	2551.4	2590.0	1432.7
HFC-1627420-SL	848.3	1302.9	1570.9	1650.5	868.7	996.2	1489.3	1787.4	1854.4	992.8	1154.2	1684.8	2017.5	2074.1	1123.2	1288.5	1857.3	2213.1	2251.5	1238.1	1433.6	2041.6	2423.8	2460.5	1361.1
HFC-1627425	985.0	1506.1	1811.3	1864.7	1004.1	1146.6	1703.6	2040.4	2085.6	1135.7	1316.8	1903.5	2278.4	2305.8	1269.0	1470.1	2099.5	2497.3	2540.8	1399.7	1627.9	2292.5	2718.4	2741.7	1528.3
HFC-1627425-SL	935.8	1430.8	1720.7	1771.5	953.9	1089.3	1618.4	1938.4	1981.3	1078.9	1251.0	1808.3	2164.5	2190.5	1205.6	1396.6	1994.5	2372.4	2413.8	1329.7	1546.5	2177.9	2582.5	2604.6	1451.9
HFC-101617.5-F	306.0	465.0	558.0	584.0	310.0	374.6	538.6	640.7	651.9	359.0	436.7	614.3	729.0	750.4	409.5	502.7	693.2	819.1	842.0	462.2	572.8	775.4	913.6	936.9	517.0
HFC-1016110-F	360.0	529.2	618.6	648.0	352.8	425.5	602.4	710.2	732.0	401.6	492.4	681.6	801.6	823.4	454.4	560.0	763.7	898.6	920.3	509.1	632.8	848.4	997.3	1018.7	595.6
HFC-1016115-F	436.9	611.2	714.2	729.7	407.4	502.2	691.8	808.8	824.4	461.2	570.5	776.4	906.2	921.2	517.6	641.3	859.8	1005.7	1020.8	573.2	714.7	946.9	1107.7	1122.4	631.3
HFC-1016120-F	489.6	669.6	777.1	797.1	446.4	556.8	752.2	875.0	893.4	501.4	625.6	836.4	966.0	991.5	557.6	696.5	927.2	1077.2	1091.2	618.2	769.2	1017.5	1181.3	1192.4	678.3
HFC-1016125-F	533.4	712.6	832.4	857.5	475.0	604.8	799.4	932.2	954.5	533.0	674.4	890.6	1033.7	1048.0	593.8	743.2	978.1	1136.8	1150.9	652.1	814.3	1069.7	1241.3	1250.5	713.1
HFC-1016130-F	577.9	760.3	883.1	914.1	506.9	645.1	847.4	983.8	1009.9	565.0	713.3	935.5	1085.6	1107.0	623.7	782.3	1024.7	1188.6	1202.6	683.1	852.1	1114.8	1292.8	1299.2	743.2
HFC-1016140-F	640.9	810.6	960.0	991.7	540.4	705.4	899.8	1053.0	1085.0	599.8	769.2	985.2	1154.3	1177.8	656.8	834.4	1080.2	1256.0	1270.2	720.2	898.8	1171.6	1299.2	1299.2	781.0

STD-201RS Table 4a - IP Units - Closed Circuit (CC)

CLOSED CIRCUIT COOLER SERIES HFC

Condition Reference #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Wet Bulb °F	50	50	50	50	50	55	55	55	55	55	60	60	60	60	60	65	65	65	65	65	70	70	70	70	70
Range °F	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15
Approach °F	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10
Inlet Process Temperature °F	67	70	72	77	75	72	75	77	82	80	77	80	82	87	85	82	85	87	92	90	87	90	92	97	95
Outlet Process Temperature °F	57	60	62	65	60	62	65	67	70	65	67	70	72	75	70	72	75	77	80	75	77	80	82	85	80
HFC-1218115-F	510.0	730.8	870.6	882.9	487.2	581.0	828.7	977.3	998.6	552.5	665.4	932.4	1095.6	1118.3	621.6	762.1	1041.0	1224.7	1252.7	694.0	859.6	1151.8	1353.7	1385.2	767.8
HFC-1218120-F	568.8	812.4	954.0	975.0	541.6	657.2	909.6	1069.8	1093.3	606.4	748.9	1023.6	1190.4	1220.3	682.4	846.4	1130.2	1333.4	1356.7	753.4	946.9	1244.4	1470.2	1493.0	829.6
HFC-1218125-F	591.4	859.2	996.0	1050.0	572.8	703.9	966.5	1118.5	1161.4	644.3	794.4	1076.4	1255.8	1275.0	717.6	891.5	1199.3	1394.6	1428.6	799.5	1000.1	1311.4	1538.0	1566.1	874.2
HFC-1218130-F	663.6	907.2	1050.6	1089.0	604.8	754.0	1018.3	1176.6	1208.3	678.9	842.4	1125.6	1304.4	1341.3	750.4	942.6	1246.3	1452.0	1476.4	830.9	1040.9	1364.8	1568.0	1568.0	909.8
HFC-1218140-F	756.0	1013.4	1188.0	1224.0	675.6	858.2	1133.0	1329.2	1364.7	755.4	956.6	1254.0	1474.0	1492.0	836.0	1057.1	1388.5	1620.5	1638.9	925.7	1159.4	1519.7	1769.3	1777.6	1013.1
HFC-1218150-F	816.0	1090.8	1261.2	1288.0	727.2	920.0	1203.7	1402.1	1443.9	802.5	1014.0	1326.0	1547.0	1578.3	884.0	1115.5	1460.3	1693.6	1713.0	973.5	1215.0	1590.8	1841.6	1847.9	1060.6
HFC-1218160-F	878.4	1152.6	1329.6	1385.0	768.4	976.2	1274.3	1480.0	1531.2	849.5	1071.6	1397.6	1624.6	1667.0	931.8	1166.6	1530.5	1770.1	1788.6	1020.3	1262.6	1660.1	1916.5	1916.3	1106.7

STD-201RS Table 4a - IP Units - Closed Circuit (CC)

CLOSED CIRCUIT COOLER SERIES HFC

Condition Reference #	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45		46	47	48	49
Wet Bulb °F	75	75	75	75	75	80	80	80	80	80	85	85	85	85	85	90	90	90	90	90		69.8	78	80.6	82.4
Range °F	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15		9	12	9	9
Approach °F	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10		10.8	12	9	7.2
Inlet Process Temperature °F	92	95	97	102	100	97	100	102	107	105	102	105	107	112	110	107	110	112	117	115		89.6	102	98.6	98.6
Outlet Process Temperature °F	82	85	87	90	85	87	90	92	95	90	92	95	97	100	95	97	100	102	105	100		80.6	90	89.6	89.6
HFC-505103	74.3	107.6	130.0	135.4	71.7	82.7	118.1	140.3	146.1	78.7	91.0	128.7	151.9	156.5	85.8	99.3	139.3	163.1	167.0	92.9			113.3		
HFC-505105	79.9	115.1	139.1	144.9	76.7	93.0	126.3	150.2	156.4	84.2	99.8	137.4	163.9	168.7	91.6	108.3	148.6	176.3	180.4	99.1			122.1		
HFC-505175	84.3	121.6	146.9	153.0	81.1	94.4	133.4	158.5	164.8	88.9	104.5	145.1	172.2	177.0	96.7	114.6	156.8	185.1	189.0	104.6			128.1		
HFC-606105	116.2	164.6	195.0	203.3	109.7	128.5	180.9	214.3	219.6	120.6	141.0	197.3	231.0	236.4	131.5	153.4	213.6	248.7	253.1	142.4			172.5		
HFC-606175	124.5	176.0	209.8	217.7	117.3	137.9	192.1	229.3	236.7	128.1	151.6	208.5	248.5	255.7	139.0	165.1	224.7	267.6	274.7	149.8			184.6		
HFC-606110	131.7	185.7	220.4	230.2	123.8	144.7	204.8	238.2	249.5	136.5	158.0	223.8	257.7	269.0	149.2	171.2	242.9	276.5	288.5	161.9			192.5		
HFC-707175	163.3	228.6	271.1	286.9	152.4	179.7	249.4	293.9	310.4	166.3	196.0	270.3	316.7	333.8	180.2	212.4	291.1	339.5	357.3	194.1			237.3		
HFC-707175-SL	155.1	217.2	257.5	272.6	144.8	170.7	236.9	279.2	294.9	158.0	186.2	256.8	300.9	317.1	171.2	201.8	276.5	322.5	339.4	184.4			225.4		
HFC-707110	175.0	244.4	291.3	301.0	162.9	192.8	266.6	316.5	325.8	177.7	210.1	288.7	342.2	350.5	192.4	227.8	310.8	367.7	375.3	207.2			255.3		
HFC-707110-SL	166.3	232.2	276.7	286.0	154.8	183.2	253.3	300.7	309.5	168.8	199.6	274.3	325.1	333.0	182.8	216.4	295.3	349.3	356.5	196.8			242.5		
HFC-707115	184.6	258.3	307.2	317.1	172.2	203.2	281.7	333.1	342.6	187.8	221.9	305.1	359.1	368.1	203.4	240.6	328.5	385.1	393.7	219.0			269.1		
HFC-707115-SL	175.4	245.4	291.8	301.2	163.6	193.0	267.6	316.4	325.5	178.4	210.8	289.8	341.1	349.7	193.2	228.6	312.1	365.8	374.0	208.1			255.6		
HFC-808175	231.7	321.8	388.6	397.0	214.5	260.7	354.7	425.7	431.4	236.5	288.8	387.3	463.5	465.9	258.2	317.3	420.0	501.3	500.4	280.0			323.8		
HFC-808175-SL	220.1	305.7	369.2	377.2	203.8	247.7	337.0	404.4	409.8	224.7	274.4	367.9	440.3	442.6	245.3	301.4	399.0	476.2	475.4	266.0			307.6		
HFC-808110	247.1	353.7	422.7	440.8	235.8	275.6	391.3	465.8	483.4	260.9	304.1	428.8	508.6	526.1	285.9	332.5	466.4	551.3	560.0	310.9			373.4		
HFC-808110-SL	234.7	336.0	401.6	418.8	224.0	261.8	371.7	442.5	459.2	247.9	288.9	407.4	483.2	499.8	271.6	315.9	443.1	523.7	540.3	295.4			354.7		
HFC-808115	270.1	378.5	461.5	481.7	252.3	296.4	420.5	511.3	531.9	280.3	324.1	462.5	560.0	560.0	308.4	351.2	504.6	560.0	560.0	336.4			409.6		
HFC-808115-SL	256.6	359.6	438.4	457.6	239.7	281.6	399.5	485.7	505.3	266.3	307.9	439.4	532.8	553.0	293.0	333.6	479.4	560.0	560.0	319.6			389.1		
HFC-810175	274.6	392.2	470.6	482.9	261.5	306.5	430.2	514.1	527.2	286.8	336.7	468.7	557.7	570.1	312.5	367.1	506.6	601.3	613.3	337.7			413.8		
HFC-810175-SL	260.9	372.6	447.1	458.8	248.4	291.2	408.7	488.4	500.8	272.5	319.9	445.3	529.8	541.6	296.9	348.7	481.3	571.2	582.6	320.8			393.1		
HFC-810110	295.2	420.0	500.3	512.5	280.0	326.6	459.3	545.9	556.3	306.2	358.7	498.4	590.8	598.3	332.3	390.8	537.5	635.7	640.3	358.3			439.8		
HFC-810110-SL	280.4	399.0	475.3	486.9	266.0	310.3	436.3	518.6	528.5	290.9	340.8	473.5	561.3	568.4	315.7	371.3	510.6	603.9	608.3	340.4			417.8		
HFC-810115	336.3	472.0	559.5	570.8	314.7	367.2	511.1	603.7	616.5	340.7	398.6	550.2	649.7	661.5	366.8	430.0	589.4	695.7	706.5	392.9			486.0		
HFC-810115-SL	319.5	448.4	531.5	542.3	299.0	348.8	485.5	573.5	585.7	323.7	378.7	522.7	617.2	628.4	348.5	408.5	559.9	660.9	671.2	373.3			461.7		
HFC-810120	354.3	497.2	593.7	599.5	331.5	391.5	543.0	645.0	642.9	362.0	428.1	587.3	695.4	684.7	391.5	464.7	632.0	745.5	726.9	421.3			521.9		
HFC-810120-SL	336.6	472.3	564.0	569.5	314.9	371.9	515.9	612.8	610.8	343.9	406.7	557.9	660.6	650.5	371.9	441.5	600.4	708.2	690.6	400.2			495.8		
HFC-812110	326.4	465.0	549.9	562.5	310.0	361.1	508.9	598.8	610.3	339.3	395.1	552.3	647.2	656.3	368.2	429.1	595.7	695.6	702.3	397.1			482.7		
HFC-812110-SL	310.1	441.8	522.4	534.4	294.5	343.0	483.5	568.9	579.8	322.3	375.3	524.7	614.8	623.5	349.8	407.6	565.9	660.8	667.2	377.2			458.6		
HFC-812115	359.4	509.0	601.5	608.3	339.3	393.6	557.9	656.8	657.8	371.9	428.6	603.9	709.9	705.4	402.6	463.7	650.3	762.9	753.0	433.6			530.6		
HFC-812115-SL	341.4	483.6	571.4	577.9	322.3	373.9	530.0	624.0	624.9	353.3	407.2	573.7	674.4	670.1	382.5	440.5	617.8	724.8	715.4	411.9			504.1		
HFC-812120	394.6	553.0	654.9	659.6	368.7	430.4	600.0	707.3	708.4	400.0	467.1	645.3	759.1	755.9	430.2	503.8	690.9	811.0	803.7	460.6			571.6		
HFC-812120-SL	374.9	525.4	622.2	626.6	350.3	408.9	570.0	671.9	673.0	380.0	443.7	613.0	721.1	718.1	408.7	478.6	656.4	770.5	763.5	437.6			543.0		
HFC-812125	426.1	594.5	700.2	700.0	396.3	464.9	640.1	756.9	749.2	426.7	504.4	687.5	812.4	799.2	458.3	543.8	734.5	867.9	848.5	489.7			612.9		
HFC-812125-SL	404.8	564.8	665.2	665.0	376.5	441.7	608.1	719.1	711.7	405.4	479.2	653.1	771.8	759.2	435.4	516.6	697.8	824.5	806.1	465.2			582.3		
HFC-510203	141.2	204.4	247.0	257.3	136.3	157.1	224.4	266.6	277.6	149.6	172.9	244.6	288.7	297.4	163.1	188.7	264.7	309.9	317.3	176.5			215.3		
HFC-510205	151.8	218.7	264.3	275.3	145.8	176.7	240.0	285.4	297.2	160.0	189.6	261.1	311.3	320.5	174.1	205.8	282.4	334.9	342.7	188.2			232.0		
HFC-510275	160.2	231.0	279.1	290.7	154.0	179.4	253.5	301.2	313.0	169.0	198.5	275.7	327.3	336.3	183.8	217.7	298.0	351.7	359.1	198.7			243.4		
HFC-612205	220.8	312.7	370.5	386.3	208.5	244.2	343.7	407.2	417.2	229.1	268.0	374.8	438.8	449.2	249.9	291.5	405.9	472.6	480.9	270.6			327.8		
HFC-612275	236.6	334.4	398.6	413.6	222.9	262.0	365.0	435.7	449.7	243.3	287.9	396.1	472.1	485.8	264.0	313.6	426.9	508.5	521.9	284.6			350.7		
HFC-612210	250.2	352.8	418.8	437.3	235.2	274.9	389.1	452.6	474.1	259.4	300.3	425.3	489.6	511.2	283.5	325.2	461.5	525.3	548.2	307.7			365.8		
HFC-714275	310.3	434.3	515.1	545.2	289.5	341.4	473.9	558.4	589.8	315.9	372.5	513.5	601.7	634.3	342.4	403.6	553.2	645.0	678.9	368.8			450.9		
HFC-714275-SL	294.8	412.6	489.3	517.9	275.0	324.3	450.2	530.5	560.3	300.1	353.9	487.8	571.6	602.6	325.3	383.4	525.5	612.8	645.0	350.4			428.4		
HFC-714210	332.5	464.4	553.5	571.9	309.6	366.3	506.5	601.4	618.9	337.7	399.1	548.5	650.2	665.9	365.6	432.9	590.5	698.6	713.0	393.7			485.1		
HFC-714210-SL	315.9	441.2	525.8	543.3	294.1	348.0	481.2	571.3	588.0	320.8	379.1	521.1	617.7	632.6	347.3	411.3	561.0	663.7	677.4	374.0			460.8		
HFC-714215	350.7	490.8	583.7	602.5	327.2	386.1	535.2	632.9	650.9	356.8	421.7	579.7	682.3	699.5	386.5	457.2	624.2	731.6	748.0	416.1			511.3		
HFC-714215-SL	333.2	466.3	554.5	572.4	310.8	366.8	508.4	601.3	618.4	339.0	400.6	550.7	648.2	664.5	367.2	434.3	593.0	695.0	710.6	395.3			485.7		
HFC-816275	440.2	611.4	738.3	754.3	407.6	495.3	673.9	808.8	819.7	449.3	548.8	736.0	880.7	885.3	490.6	602.8	798.0	952.4	950.8	532.0			650.0		
HFC-816275-SL	418.2	580.8	701.4	716.6	387.2	470.5	640.2	768.4	778.7	426.8	521.4	699.2	836.7	841.0	466.1	572.7	758.1	904.8	903.3	505.4			617.5		
HFC-816210	469.5	672.0	803.1	837.4	448.0	523.6	743.5	885.0	918.5	495.6	577.7	814.8	966.3	999.5	543.2	631.8	886.2	1047.5	1080.6	590.8			709.5		
HFC-816210-SL	446.0	638.4	762.9	795.5	425.6	497.4	706.3	840.8	872.6	470.8	548.8	774.1	918.0	949.5	516.0	600.2	841.9	995.1	1026.6	561.3			674.0		
HFC-816215	513.2	719.2	876.9	915.2	479.4	563.2	799.0	971.5	1010.6	532.6	615.7	878.8	1065.5	1106.0	585.9	667.3	958.7	1120.0	1120.0	639.1			778.2		
HFC-816215-SL	487.5	683.2	833.1	869.4	455.4	535.0	759.1	922.9	960.1	506.0	584.9	834.9	1012.2	1050.7	556.6	633.9	910.8	1064.0	1064.0	607.1			739.3		
HFC-819275	530.8	749.5	890.2	915.0	499.7	588.8	827.1	978.0	994.4	551.4	643.9	900.1	1060.5	1071.8	600.1	699.8	973.1	1143.1	1149.2	810.9			785.5		
HFC-819275-SL	504.3	712.0	845.7	869.3	474.7	559.4	785.7	929.1	944.7	523.8	611.7	855.1	1007.5	1018.2	570.1	664.8	924.4	1085.9	1091.7	770.4			746.2		
HFC-819210	574.7	812.0	963.8	984.2	541.3	632.5	886.5	1051.3	1069.3	591.0	688.8	960.6	1136.9	1153.1	640.4	745.1	1034.6	1222.3	1236.8	689.8			845.4		
HFC-819210-SL	546.0	771.4	915.6	935.0	514.2	600.9	842.2	998.7	1015.8	561.5	654.4	912.6	1080.1	1095.4	608.4	707.8	982.9	1161.2	1175.0	655.3			803.1		
HFC-819215	642.5	902.0	1065.9	1081.7	601.3	709.5	978.4	1155.5	1163.2	652.3	769.9	1055.4	1244.4	1246.5	703.6	830.8	1132.4	1333.3	1329.9	754.9			932.9		
HFC-819215-SL	610.4	856.9	1012.6	1027.6	571.2	674.0	929.5	1097.7	1105.0	619.7	731.4	1002.6	1182.2	1184.2	668.4	789.3	1075.8	1266.6	1263.4	717.2			886.3		
HFC-819220	684.0	955.0	1123.6	1127.5	636.7	748.5	1030.2	1212.3	1216.6	686.8	808.0	1107.1	1301.8	1301.5	738.0	868.3	1184.2	1391.2	1386.0	789.4			979.4		
HFC-819220-SL	649.8	907.3	1067.4	1071.1	604.9	711.1	978.7	1151.7	1155.8	652.5	767.6	1051.7	1236.7	1236.4	701.1	824.9	1125.0	1321.6	1316.7	749.9			930.4		
HFC-822275	576.1	823.0	976.3	994.2	548.7	636.3	900.1	1070.6	1090.5	600.1	696.9	980.6	1161.1	1177.2	653.8	756.8	1059.7	1251.6	1263.9	706.4			862.9		
HFC-822275-SL	547.3	781.9	927.5	944.5	521.3	604.5	855.1	1017.1	1036.0	570.1	662.1	931.6	1103.0	1118.3	621.1	719.0	1006.7	1189.0	1200.7	671.1			819.8		
HFC-822210	628.6	890.0	1052.7	1070.8	593.3	691.4	971.5	1145.9	1162.0	647.6	754.0	1054.7	1239.3	1250.7	703.1	815.9	1137.1	1332.3	1339.5	758.1			927.3		

STD-201RS Table 4a - IP Units - Closed Circuit (CC)

CLOSED CIRCUIT COOLER SERIES HFC

Condition Reference #	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45		46	47	48	49
Wet Bulb °F	75	75	75	75	75	80	80	80	80	80	85	85	85	85	85	90	90	90	90	90		69.8	78	80.6	82.4
Range °F	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15		9	12	9	9
Approach °F	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10		10.8	12	9	7.2
Inlet Process Temperature °F	92	95	97	102	100	97	100	102	107	105	102	105	107	112	110	107	110	112	117	115		89.6	102	98.6	98.6
Outlet Process Temperature °F	82	85	87	90	85	87	90	92	95	90	92	95	97	100	95	97	100	102	105	100		80.6	90	89.6	89.6
HFC-822210-SL	597.2	845.5	1000.1	1017.3	563.6	656.8	922.9	1088.6	1103.9	615.2	716.3	1002.0	1177.3	1188.2	667.9	775.1	1080.2	1265.7	1272.5	720.2			880.9		
HFC-822215	699.7	985.0	1161.8	1170.8	656.7	764.0	1067.8	1260.2	1263.2	711.8	828.1	1152.7	1358.5	1353.5	768.5	891.9	1237.6	1456.3	1443.8	825.1			1019.9		
HFC-822215-SL	664.7	935.8	1103.7	1112.3	623.9	725.8	1014.4	1197.2	1200.0	676.2	786.7	1095.1	1290.6	1285.8	730.1	847.3	1175.7	1383.5	1371.6	783.8			968.9		
HFC-822220	760.7	1058.0	1248.7	1252.1	705.3	827.6	1142.3	1348.0	1348.7	761.5	893.7	1227.1	1447.8	1441.4	818.1	960.0	1311.9	1547.2	1534.1	874.6			1092.3		
HFC-822220-SL	722.7	1005.1	1186.3	1189.5	670.0	786.2	1085.2	1280.6	1281.3	723.4	849.0	1165.7	1375.4	1369.3	777.2	912.0	1246.3	1469.8	1457.4	830.9			1037.7		
HFC-827210	665.9	955.5	1145.3	1170.0	637.0	741.2	1053.7	1258.0	1273.8	702.5	814.3	1147.2	1366.6	1373.8	764.8	887.3	1240.7	1475.3	1473.7	827.1			1014.6		
HFC-827210-SL	632.6	907.7	1088.0	1111.5	605.2	704.1	1001.0	1195.1	1210.1	667.4	773.6	1089.8	1298.3	1305.1	726.6	842.9	1178.7	1401.5	1400.0	785.7			963.9		
HFC-827215	786.7	1118.5	1330.5	1347.5	745.7	861.9	1220.5	1447.7	1455.3	813.6	937.4	1318.7	1562.8	1562.2	879.1	1012.9	1416.9	1678.0	1669.1	944.6			1175.8		
HFC-827215-SL	747.4	1062.6	1264.0	1280.1	708.4	818.8	1159.5	1375.3	1382.5	772.9	890.5	1252.8	1484.7	1484.1	835.1	962.3	1346.1	1594.1	1585.6	897.4			1117.0		
HFC-827220	857.5	1212.0	1433.3	1440.0	808.0	942.7	1314.5	1551.2	1551.4	876.3	1022.9	1415.0	1666.9	1659.0	943.3	1103.1	1515.4	1782.6	1766.6	1010.3			1253.8		
HFC-827220-SL	814.6	1151.4	1361.6	1368.0	767.6	895.6	1248.8	1473.6	1473.8	832.5	971.8	1344.3	1583.6	1576.1	896.1	1047.9	1439.6	1693.5	1678.3	959.8			1191.1		
HFC-827225	914.9	1282.0	1513.5	1512.5	854.7	998.3	1382.1	1635.2	1633.9	921.4	1077.5	1482.1	1752.6	1745.5	988.1	1156.6	1582.2	1870.1	1857.2	1054.8			1327.4		
HFC-827225-SL	869.2	1217.9	1437.8	1436.9	812.0	948.4	1313.0	1553.4	1552.2	875.3	1023.6	1408.0	1665.0	1658.2	938.7	1098.8	1503.1	1776.6	1764.3	1002.1			1261.0		
HFC-1010403	267.5	387.4	468.0	487.5	258.2	297.7	425.2	505.2	526.0	283.4	327.6	463.5	546.9	563.4	309.0	357.5	501.6	587.1	601.3	334.4			408.0		
HFC-1010405	295.6	414.4	500.8	521.7	276.2	334.8	454.7	540.7	563.1	303.1	373.8	494.7	589.9	607.3	329.8	389.9	535.0	634.6	649.3	356.7			439.5		
HFC-1010475	303.5	437.8	528.8	550.8	291.8	339.8	480.2	570.7	593.1	320.2	376.2	522.4	620.1	637.2	348.2	412.5	564.6	666.5	680.4	376.4			461.1		
HFC-1212405	418.3	592.6	702.0	732.0	395.0	462.6	651.2	771.6	790.5	434.2	507.7	710.2	831.5	851.1	473.5	552.4	769.1	895.4	911.2	512.8			621.0		
HFC-1212475	448.2	633.6	755.3	783.6	422.4	496.4	691.6	825.6	852.0	461.0	545.6	750.5	894.6	920.5	500.3	594.3	808.8	963.5	988.9	539.2			664.5		
HFC-1212410	474.1	668.5	793.4	828.6	445.7	520.9	737.3	857.5	898.2	491.5	568.9	805.8	927.7	968.5	537.2	616.2	874.4	995.3	1038.6	583.0			693.0		
HFC-1414475	587.9	822.8	975.9	1033.0	548.5	646.8	897.9	1058.0	1117.4	598.6	705.7	973.0	1140.1	1201.8	648.7	764.6	1048.1	1222.1	1286.3	698.8			854.3		
HFC-1414475-SL	558.5	781.7	927.1	981.4	521.1	614.5	853.0	1005.1	1061.5	568.7	670.4	924.4	1083.1	1141.7	616.3	726.4	995.7	1161.0	1222.0	663.9			811.6		
HFC-1414410	630.0	879.8	1048.7	1083.6	586.6	694.1	959.8	1139.4	1172.7	639.8	756.2	1039.2	1231.9	1261.8	692.8	820.2	1118.8	1323.7	1351.0	745.9			919.2		
HFC-1414410-SL	598.5	835.8	996.3	1029.4	557.3	659.4	911.8	1082.4	1114.1	607.8	718.4	987.2	1170.3	1198.7	658.2	779.2	1062.9	1257.5	1283.5	708.6			873.2		
HFC-1414415	664.6	929.9	1105.9	1141.5	619.9	731.5	1014.1	1199.2	1233.3	676.1	799.0	1098.4	1292.8	1325.3	732.3	866.2	1182.7	1386.2	1417.2	788.4			968.7		
HFC-1414415-SL	631.4	883.4	1050.6	1084.4	588.9	694.9	963.4	1139.2	1171.6	642.3	759.1	1043.5	1228.2	1259.0	695.7	822.9	1123.6	1316.9	1346.3	749.0			920.3		
HFC-1616475	834.1	1158.5	1399.0	1429.2	772.3	938.5	1276.9	1532.5	1553.1	851.3	1039.8	1394.5	1668.6	1677.4	929.6	1142.1	1512.0	1804.5	1801.5	1008.0			1231.5		
HFC-1616475-SL	792.4	1100.6	1329.1	1357.7	733.7	891.6	1213.1	1455.9	1475.4	808.7	987.8	1324.8	1585.2	1593.5	883.1	1085.0	1436.4	1714.3	1711.4	957.6			1169.9		
HFC-1616410	889.6	1273.3	1521.7	1586.7	848.9	992.2	1408.7	1676.9	1740.3	939.1	1094.7	1543.8	1830.9	1893.8	1029.2	1197.2	1679.1	1984.7	2047.4	1119.4			1344.3		
HFC-1616410-SL	845.1	1209.6	1445.6	1507.4	806.5	942.6	1338.3	1593.1	1653.3	892.1	1040.0	1466.6	1739.4	1799.1	977.7	1137.3	1595.1	1885.5	1945.0	1063.4			1277.1		
HFC-1616415	972.4	1362.6	1661.4	1734.0	908.4	1067.0	1513.8	1840.7	1914.9	1009.2	1166.7	1665.2	2018.9	2095.6	1110.1	1264.4	1816.4	2197.9	2240.0	1211.0			1474.5		
HFC-1616415-SL	923.8	1294.5	1578.3	1647.3	863.0	1013.7	1438.1	1748.7	1819.2	958.7	1108.4	1581.9	1918.0	1990.8	1054.6	1201.2	1725.6	2088.0	2128.0	1150.5			1400.8		
HFC-1619475	1005.6	1456.0	1733.0	1779.2	970.7	1132.2	1605.6	1917.8	1950.3	1070.4	1251.4	1750.5	2089.2	2108.6	1167.0	1371.0	1895.9	2260.4	2266.9	1264.0			1543.0		
HFC-1619475-SL	955.3	1383.2	1646.4	1690.2	922.2	1075.6	1525.3	1821.9	1852.8	1016.9	1188.8	1663.0	1984.7	2003.2	1108.7	1302.5	1801.1	2147.4	2153.6	1200.8			1465.9		
HFC-1619410	1082.2	1575.0	1879.7	1920.8	1050.0	1220.4	1729.0	2065.1	2090.8	1152.7	1341.0	1878.1	2244.8	2253.5	1252.1	1465.9	2026.1	2424.5	2416.3	1350.7			1669.2		
HFC-1619410-SL	1028.1	1496.3	1785.7	1824.8	997.5	1159.4	1642.6	1961.8	1986.3	1095.1	1274.0	1784.2	2132.6	2140.8	1189.5	1392.6	1924.8	2303.3	2295.5	1283.2			1585.7		
HFC-1619415	1249.5	1774.0	2103.0	2120.8	1182.7	1376.4	1932.8	2294.2	2299.1	1288.5	1496.6	2087.6	2473.3	2464.2	1391.7	1617.0	2242.3	2652.4	2629.3	1494.9			1859.3		
HFC-1619415-SL	1187.0	1685.3	1997.9	2014.8	1123.6	1307.6	1836.2	2179.5	2184.1	1224.1	1421.8	1983.2	2349.6	2341.0	1322.1	1536.2	2130.2	2519.8	2497.8	1420.2			1766.3		
HFC-1619420	1343.5	1891.0	2245.1	2258.3	1260.7	1477.4	2054.4	2432.2	2431.2	1369.6	1603.2	2213.2	2614.1	2600.2	1475.5	1728.6	2371.9	2796.1	2769.2	1581.3			1971.5		
HFC-1619420-SL	1276.3	1796.5	2132.8	2145.4	1197.7	1403.5	1951.7	2310.6	2309.6	1301.1	1523.0	2102.5	2483.4	2470.2	1401.7	1642.2	2253.3	2656.3	2630.7	1502.2			1872.9		
HFC-1622475	1070.7	1569.0	1881.5	1933.3	1046.0	1203.8	1735.4	2079.8	2115.1	1156.9	1331.1	1895.8	2266.8	2288.5	1263.9	1458.5	2056.2	2453.8	2462.0	1370.8			1673.9		
HFC-1622475-SL	1017.2	1490.6	1787.4	1836.6	993.7	1143.6	1648.6	1975.8	2009.3	1099.1	1264.5	1801.0	2153.5	2174.1	1200.7	1385.6	1953.4	2331.1	2338.9	1302.3			1590.2		
HFC-1622410	1184.9	1716.5	2051.3	2096.7	1144.3	1307.9	1874.4	2251.2	2270.0	1249.6	1439.5	2035.1	2445.8	2447.0	1356.7	1570.3	2194.5	2638.7	2622.6	1463.0			1819.1		
HFC-1622410-SL	1125.7	1630.7	1948.7	1991.9	1087.1	1242.5	1780.7	2138.6	2156.5	1187.1	1367.5	1933.3	2323.5	2324.7	1288.9	1491.8	2084.8	2506.8	2491.5	1389.9			1728.1		
HFC-1622415	1378.5	1955.0	2319.7	2348.3	1303.3	1523.8	2128.0	2527.9	2539.0	1418.7	1658.2	2297.1	2725.8	2723.8	1531.4	1793.3	2466.3	2923.8	2908.6	1644.2			2046.0		
HFC-1622415-SL	1309.6	1857.3	2203.7	2230.9	1238.1	1447.6	2021.6	2401.5	2412.1	1347.8	1575.3	2182.2	2589.5	2587.6	1454.8	1703.6	2343.0	2777.6	2763.2	1562.0			1943.7		
HFC-1622420	1505.3	2120.0	2504.9	2508.3	1413.3	1654.3	2289.4	2710.1	2713.1	1526.2	1792.9	2460.5	2909.7	2900.7	1640.3	1931.4	2631.6	3109.2	3088.2	1754.4			2196.1		
HFC-1622420-SL	1430.0	2014.0	2379.7	2382.9	1342.6	1571.6	2174.9	2574.6	2577.4	1449.9	1703.3	2337.5	2764.2	2755.7	1558.3	1834.8	2500.0	2953.7	2933.8	1666.7			2086.3		
HFC-1627410	1295.9	1886.5	2257.4	2313.3	1257.7	1450.9	2076.9	2487.3	2525.6	1384.6	1592.8	2258.1	2702.7	2728.0	1505.4	1734.8	2439.2	2918.1	2930.3	1626.1			2009.5		
HFC-1627410-SL	1231.1	1792.2	2144.5	2197.6	1194.8	1378.4	1973.1	2362.9	2399.3	1315.4	1513.2	2145.2	2567.6	2591.6	1430.1	1648.1	2317.2	2772.2	2783.8	1544.8			1909.0		
HFC-1627415	1528.1	2176.0	2590.0	2629.2	1450.7	1681.6	2372.1	2819.2	2837.7	1581.4	1830.0	2565.5	3042.1	3047.8	1710.3	1977.9	2758.9	3265.0	3257.8	1839.3			2278.0		
HFC-1627415-SL	1451.7	2067.2	2460.5	2497.7	1378.2	1597.5	2253.5	2678.2	2695.8	1502.3	1738.5	2437.2	2890.0	2895.4	1624.8	1879.0	2621.0	3101.8	3094.9	1747.3			2164.1		
HFC-1627420	1671.3	2345.0	2785.0	2803.8	1563.3	1826.4	2548.3	3020.9	3024.9	1698.9	1982.9	2744.4	3248.8	3239.6	1829.6	2138.7	2940.5	3476.7	3454.2	1960.4			2449.1		
HFC-1627420-SL	1587.7	2227.8	2645.8	2663.6	1485.1	1735.1	2420.9	2869.9	2873.7	1614.0	1883.8	2607.2	3086.4	3077.6	1738.1	2031.8	2793.5	3302.9	3281.5	1862.4			2326.6		
HFC-1627425	1788.4	2490.0	2946.4	2948.3	1660.0	1952.9	2691.1	3186.3	3189.7	1794.1	2116.0	2888.6	3415.5	3410.6	1925.7	2277.6	3086.1	3644.7	3631.4	2057.4			2583.5		
HFC-1627425-SL	1699.0	2365.5	2799.1	2800.9	1577.0	1855.3	2556.5	3027.0	3030.2	1704.4	2010.2	2744.2	3244.7	3240.1	1829.4	2163.7	2931.8	3462.5	3449.8	1954.5			2454.3		
HFC-101617.5-F	645.6	862.8	1011.2	1034.8	575.2	724.6	948.8	1111.0	1135.5	632.6	806.2	1039.9	1215.6	1239.2	693.3	891.6	1130.4	1299.2	1299.2	753.6			892.7		
HFC-1016110-F	710.0	934.8	1098.5	1123.0	623.2	788.2	1025.4	1203.6	1223.2	683.6	870.8	1117.6	1299.2	1299.2	745.0	948.0	1221.6	1299.2	1299.2	814.4			967.1		
HFC-1016115-F	790.7	1035.8	1212.2	1226.3	690.6	868.9	1126.6	1299.2	1299.2	751.0	949.6	1219.0	1299.2	1299.2	812.6	1030.0	1299.2	1299.2	1299.2	876.0			1065.0		
HFC-1016120-F	843.7	1109.3	1288.8	1299.2	739.5	919.8	1202.8	1299.2	1299.2	801.8	997.6	1297.7	1299.2	1299.2	865.1	1075.2	1299.2	1299.2	1299.2	926.4			1126.3		
HFC-1016125-F	886.7	1162.7	1299.2	1299.2	775.1	960.2	1256.9	1299.2	1299.2	837.9	1034.9	1299.2	1299.2	1299.2	901.5	1110.0	1299.2	1299.2	1299.2	968.8			1176.1		
HFC-1016130-F	922.9	1205.9	1299.2	1299.2	803.9	994.2	1297.9	1299.2	1299.2	865.1	1066.3	1299.2	1299.2	1299.2	926.9	1138.8	1299.2	1299.2	1299.2	991.2			1217.7		
HFC-1016140-F	963.4	1263.4	1299.2	1299.2	842.2	1027.9	1299.2	1299.2	1299.2	903.9	1092.5	1299.2	1299.2	1299.2	965.9	1157.4	1299.2	1299.2	1299.2	1025.4			1268.7		

STD-201RS Table 4a - IP Units - Closed Circuit (CC)

CLOSED CIRCUIT COOLER SERIES HFC

Condition Reference #	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45		46	47	48	49
Wet Bulb °F	75	75	75	75	75	80	80	80	80	80	85	85	85	85	85	90	90	90	90	90		69.8	78	80.6	82.4
Range °F	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15	10	10	10	12	15		9	12	9	9
Approach °F	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10	7	10	12	15	10		10.8	12	9	7.2
Inlet Process Temperature °F	92	95	97	102	100	97	100	102	107	105	102	105	107	112	110	107	110	112	117	115		89.6	102	98.6	98.6
Outlet Process Temperature °F	82	85	87	90	85	87	90	92	95	90	92	95	97	100	95	97	100	102	105	100		80.6	90	89.6	89.6
HFC-1218115-F	954.7	1272.0	1483.4	1527.0	848.0	1067.6	1382.0	1568.0	1568.0	921.4	1178.0	1503.0	1568.0	1568.0	1002.0	1286.4	1568.0	1568.0	1568.0	1083.2			1305.1		
HFC-1218120-F	1051.3	1348.8	1568.0	1568.0	899.2	1159.0	1480.3	1568.0	1568.0	956.9	1270.4	1568.0	1568.0	1568.0	1067.8	1368.0	1568.0	1568.0	1568.0	1160.0			1418.0		
HFC-1218125-F	1097.2	1432.8	1568.0	1568.0	955.2	1198.2	1546.3	1568.0	1568.0	1030.9	1312.3	1568.0	1568.0	1568.0	1130.6	1404.0	1568.0	1568.0	1568.0	1219.2			1482.9		
HFC-1218130-F	1146.0	1476.0	1568.0	1568.0	984.0	1244.3	1568.0	1568.0	1568.0	1071.5	1349.4	1568.0	1568.0	1568.0	1154.2	1452.6	1568.0	1568.0	1568.0	1241.6			1522.4		
HFC-1218140-F	1263.8	1656.0	1920.4	1917.2	1104.0	1369.6	1787.9	2072.8	2105.6	1191.9	1477.1	1924.8	2105.6	2105.6	1283.2	1582.3	2068.8	2105.6	2105.6	1379.2			1676.2		
HFC-1218150-F	1315.6	1723.0	1991.2	1982.9	1148.6	1417.2	1856.5	2105.6	2105.6	1237.7	1519.8	1991.3	2105.6	2105.6	1327.5	1620.0	2105.6	2105.6	2105.6	1412.0			1734.5		
HFC-1218160-F	1359.1	1790.6	2063.6	2043.4	1193.8	1458.0	1922.0	2105.6	2105.6	1281.4	1553.3	2054.2	2105.6	2105.6	1309.4	1653.6	2105.6	2105.6	2105.6	1457.6			1793.5		