

Reference chart for Bullet® “Restricto” Capillary Tubing for All Refrigerants in Low, Medium and High Applications

NOTE: This chart is average measurements for average conditions, and may have to be “fine tuned” for exact replacement. These charts are for Fan Cooled units only. Add 10% to the length of the cap tubing for Static Cooled Units.

NOTE: Application Temperatures are Saturated Suction Temperatures (SST).

SINGLE FEED

REF	HP	-10 LOW	+20 MED	+45 HIGH	
R12/R416A	1/8 HP	110" # 5	84" # 5	48" # 5	
	1/6 HP	71" # 5	96" # 1	72" # 1	
	1/5 HP	54" # 1	36" # 1	24" # 1	
	1/4 HP	43" # 1	90" # 2	60" # 2	
	1/3 HP	93" # 2	72" # 2	36" # 2	
	1/2 HP	96" # 3	48" # 3	90" # 4	
	3/4 HP	60" # 3	92" # 4	72" # 4	
	1 HP	36" # 3	84" # 4	54" # 4	
	1-1/2 HP	84" # 4	60" # 4	43" # 4	
	2 HP	55" # 4	40" # 4	26" # 4	
	R134A / R401A R401B/R406A R409A/R500	1/8 HP	121" # 5	92" # 5	53" # 5
		1/6 HP	78" # 5	106" # 1	79" # 1
1/5 HP		59" # 1	39" # 1	26" # 1	
1/4 HP		47" # 1	99" # 2	66" # 2	
1/3 HP		102" # 2	79" # 2	39" # 2	
1/2 HP		105" # 3	52" # 3	99" # 4	
3/4 HP		66" # 3	101" # 4	79" # 4	
1 HP		39" # 3	92" # 4	59" # 4	
1-1/2 HP		92" # 4	66" # 4	47" # 4	
2 HP		61" # 4	44" # 4	29" # 4	
R22	1/8 HP	132" # 5	101" # 5	58" # 5	
	1/6 HP	86" # 5	116" # 1	86" # 1	
	1/5 HP	64" # 1	42" # 1	28" # 1	
	1/4 HP	51" # 1	109" # 2	72" # 2	
	1/3 HP	112" # 2	87" # 2	43" # 2	
	1/2 HP	115" # 3	57" # 3	109" # 4	
	3/4 HP	72" # 3	111" # 4	87" # 4	
	1 HP	42" # 3	101" # 4	65" # 4	
	1-1/2 HP	101" # 4	72" # 4	51" # 4	
	2 HP	67" # 4	48" # 4	32" # 4	

REF	HP	-10 LOW	+20 MED	+45 HIGH	
R402B/R403B R404A/R407C R408A/R502	1/8 HP	144" # 5	111" # 5	63" # 5	
	1/6 HP	95" # 5	78" # 5	95" # 1	
	1/5 HP	70" # 1	46" # 1	31" # 1	
	1/4 HP	56" # 1	31" # 1	79" # 2	
	1/3 HP	30" # 1	96" # 2	47" # 2	
	1/2 HP	29" # 2	63" # 3	32" # 3	
	3/4 HP	79" # 3	32" # 3	96" # 4	
	1 HP	46" # 3	111" # 4	72" # 4	
	1-1/2 HP	111" # 4	79" # 4	56" # 4	
	2 HP	74" # 4	52" # 4	34" # 4	
	R402A/R407A R407B/R507	1/8 HP	N/A	122" # 5	69" # 5
		1/6 HP	104" # 5	138" # 1	105" # 1
1/5 HP		77" # 1	50" # 1	34" # 1	
1/4 HP		62" # 1	34" # 1	86" # 2	
1/3 HP		33" # 1	106" # 2	52" # 2	
1/2 HP		31" # 2	69" # 3	35" # 3	
3/4 HP		87" # 3	37" # 3	106" # 4	
1 HP		52" # 3	30" # 3	79" # 4	
1-1/2 HP		32" # 3	86" # 4	62" # 4	
2 HP		82" # 4	58" # 4	37" # 4	
R410A	1/8 HP	N/A	144" # 5	81" # 5	
	1/6 HP	123" # 5	100" # 5	78" # 5	
	1/5 HP	90" # 1	60" # 1	41" # 1	
	1/4 HP	73" # 1	40" # 1	101" # 2	
	1/3 HP	38" # 1	30" # 1	62" # 2	
	1/2 HP	37" # 2	84" # 3	42" # 3	
	3/4 HP	104" # 3	44" # 3	34" # 3	
	1HP	62" # 3	36" # 3	94" # 4	
	1-1/2 HP	38" # 3	103" # 4	74" # 4	
	2 HP	96" # 4	69" # 4	45" # 4	

DOUBLE FEED (All double feed caps tubes require 2 lengths of each size listed below.)

REF	HP	-10 LOW	+20 MED	+45 HIGH
R12/R416A	1/2 HP	43" # 1	90" # 2	60" # 2
	3/4 HP	30" # 1	63" # 2	42" # 2
	1 HP	96" # 3	48" # 3	90" # 4
	1 1/2 HP	60" # 3	92" # 4	72" # 4
	2 HP	36" # 3	84" # 4	54" # 4
	2 1/2 HP	108" # 4	72" # 4	49" # 4
	3 HP	84" # 4	60" # 4	43" # 4
	3 1/2 HP	70" # 4	54" # 4	35" # 4
	4 HP	55" # 4	40" # 4	26" # 4
	R134A/R401A R401B/R406B R409A/R500	1/2 HP	47" # 1	99" # 2
3/4 HP		33" # 1	69" # 2	46" # 2
1 HP		105" # 3	52" # 3	99" # 4
1 1/2 HP		66" # 3	101" # 4	79" # 4
2 HP		40" # 3	92" # 4	59" # 4
2 1/2 HP		119" # 4	79" # 4	53" # 4
3 HP		92" # 4	66" # 4	47" # 4
3 1/2 HP		77" # 4	59" # 4	38" # 4
4 HP		60" # 4	44" # 4	29" # 4
R22		1/2 HP	52" # 1	108" # 2
	3/4 HP	36" # 1	77" # 2	50" # 2
	1 HP	115" # 3	58" # 3	108" # 4
	1 1/2 HP	72" # 3	110" # 4	86" # 4
	2 HP	43" # 3	101" # 4	65" # 4
	2 1/2 HP	39" # 3	87" # 4	58" # 4
	3 HP	101" # 4	72" # 4	52" # 4
	3 1/2 HP	84" # 4	64" # 4	41" # 4
	4 HP	66" # 4	48" # 4	31" # 4

REF	HP	-10 LOW	+20 MED	+45 HIGH
R402B/R403B R404A/R407C R408A/R502	1/2 HP	56" # 1	119" # 2	78" # 2
	3/4 HP	39" # 1	85" # 2	55" # 2
	1 HP	28" # 2	63" # 3	119" # 4
	1 1/2 HP	79" # 3	32" # 3	94" # 4
	2 HP	47" # 3	110" # 4	71" # 4
	2 1/2 HP	43" # 3	96" # 4	64" # 4
	3 HP	111" # 4	79" # 4	57" # 4
	3 1/2 HP	92" # 4	70" # 4	46" # 4
	4 HP	73" # 4	53" # 4	34" # 4
	R402A/R407A R407B/R507	1/2 HP	62" # 1	32" # 1
3/4 HP		43" # 1	92" # 2	60" # 2
1 HP		31" # 2	70" # 3	36" # 3
1 1/2 HP		87" # 3	35" # 3	103" # 4
2 HP		52" # 3	28" # 3	78" # 4
2 1/2 HP		47" # 3	106" # 4	70" # 4
3 HP		32" # 3	86" # 4	62" # 4
3 1/2 HP		101" # 4	77" # 4	50" # 4
4 HP		80" # 4	58" # 4	37" # 4
R410A		1/2 HP	72" # 1	37" # 1
	3/4 HP	50" # 1	116" # 2	70" # 2
	1 HP	37" # 2	83" # 3	42" # 3
	1 1/2 HP	102" # 3	44" # 3	34" # 3
	2 HP	62" # 3	37" # 3	93" # 4
	2 1/2 HP	55" # 3	32" # 3	81" # 4
	3 HP	38" # 3	101" # 4	74" # 4
	3 1/2 HP	118" # 4	90" # 4	55" # 4
	4 HP	92" # 4	70" # 4	41" # 4

TRIPLE FEED (All triple feed cap tubes require 3 lengths of each size listed below.)

REF	HP	-10 LOW	+20 MED	+45 HIGH
R12/R416A	1 HP	93" #2	72" #2	36" #2
	1 1/2 HP	96" #3	48" #3	90" #4
	2 HP	77" #3	38" #3	72" #4
	3 HP	36" #3	84" #4	54" #4
	4 HP	108" #34	63" #4	41" #4
5 HP	86" #4	50" #4	32" #4	
R134A/R401A R401B/R406A R409A/R500	1 HP	102" #2	79" #2	39" #2
	1 1/2 HP	105" #3	52" #3	99" #4
	2 HP	84" #3	42" #3	79" #4
	3 HP	40" #3	92" #4	59" #4
	4 HP	30" #3	69" #4	45" #4
5 HP	94" #4	55" #4	35" #4	
R22	1 HP	112" #2	86" #2	43" #2
	1 1/2 HP	37" #2	58" #3	108" #4
	2 HP	92" #3	46" #3	86" #4
	3 HP	43" #3	100" #4	65" #4
	4 HP	32" #3	75" #4	49" #4
5 HP	102" #4	60" #4	39" #4	

REF	HP	-10 LOW	+20 MED	+45 HIGH
R402B/R403B R404A/R407C R408A/R502	1 HP	30" #1	94" #2	47" #2
	1 1/2 HP	41" #2	63" #3	32" #3
	2 HP	101" #3	50" #3	95" #4
	3 HP	47" #3	110" #4	71" #4
	4 HP	35" #3	83" #4	53" #4
5 HP	32" #3	66" #4	43" #4	
R402A/R407A 4R07B/R507	1 HP	33" #1	104" #2	52" #2
	1 1/2 HP	45" #2	70" #3	35" #3
	2 HP	111" #3	55" #3	104" #4
	3 HP	52" #3	31" #3	78" #4
	4 HP	38" #3	91" #4	58" #4
5 HP	35" #3	72" #4	47" #4	
R410A	1 HP	39" #1	30" #1	62" #2
	1 1/2 HP	54" #2	84" #3	42" #3
	2 HP	27" #2	66" #3	32" #3
	3 HP	62" #3	37" #3	94" #4
	4 HP	46" #3	109" #4	68" #4
5 HP	42" #3	86" #4	56" #4	

FOUR FEED (All four feed cap tubes require 4 lengths of each size listed below.)

REF	HP	-10 LOW	+20 MED	+45 HIGH
R12/R416A	2 HP	96" #3	48" #3	90" #4
	3 HP	60" #3	92" #4	72" #4
	4 HP	36" #3	84" #4	54" #4
	5 HP	105" #4	67" #4	43" #4
R134A/R401A R401B/R406A R409A/R500	2 HP	105" #3	52" #3	99" #4
	3 HP	66" #3	101" #4	79" #4
	4 HP	40" #3	92" #4	59" #4
	5 HP	32" #3	74" #4	47" #4
R22	2 HP	115" #3	58" #3	108" #4
	3 HP	72" #3	110" #4	86" #4
	4 HP	44" #3	101" #4	65" #4
	5 HP	35" #3	81" #4	52" #4

REF	HP	-10 LOW	+20 MED	+45 HIGH
R402B/R403B R404A/R407C R408A/R502	2 HP	29" #2	63" #3	32" #3
	3 HP	79" #3	32" #3	94" #4
	4 HP	47" #3	111" #4	71" #4
	5 HP	38" #3	89" #4	57" #4
R402A/R407A R407B/R507	2 HP	31" #2	70" #3	35" #3
	3 HP	87" #3	35" #3	103" #4
	4 HP	52" #3	31" #3	78" #4
	5 HP	42" #3	97" #4	63" #4
R410A	2 HP	34" #2	81" #3	41" #3
	3 HP	101" #3	48" #3	32" #3
	4 HP	62" #3	36" #3	92" #4
	5 HP	49" #3	30" #3	74" #4

FIVE FEED (All five feed cap tubes require 5 lengths of each size listed below.)

REF	HP	-10 LOW	+20 MED	+45 HIGH
R12/R416A	2 HP	115" #3	58" #3	108" #4
	3 HP	81" #3	41" #3	77" #4
	4 HP	57" #3	87" #4	68" #4
	5 HP	36" #3	82" #4	54" #4
R134A/R401A R401B/R406B R409A/R500	2 HP	28" #2	62" #3	32" #3
	3 HP	89" #3	45" #3	84" #4
	4 HP	62" #3	95" #4	74" #4
	5 HP	40" #3	92" #4	59" #4
R22	2 HP	32" #2	70" #3	35" #3
	3 HP	97" #3	49" #3	92" #4
	4 HP	68" #3	103" #4	81" #4
	5 HP	48" #3	98" #4	65" #4

REF	HP	-10 LOW	+20 MED	+45 HIGH
R402B/R403B R404A/R407C R408A/R502	2 HP	35" #2	77" #3	38" #3
	3 HP	108" #3	54" #3	101" #4
	4 HP	74" #3	114" #4	89" #4
	5 HP	53" #3	108" #4	71" #4
R402A/R407A R407B/R507	2 HP	38" #2	84" #3	42" #3
	3 HP	28" #2	59" #3	30" #3
	4 HP	81" #3	35" #3	99" #4
	5 HP	58" #3	31" #3	78" #4
R410A	2 HP	45" #2	98" #3	49" #3
	3 HP	31" #2	69" #3	35" #3
	4 HP	95" #3	40" #3	30" #3
	5 HP	67" #3	36" #3	91" #4

SIX FEED (All six feed cap tubes require 6 lengths of each size listed below.)

REF	HP	-10 LOW	+20 MED	+45 HIGH
R12/R116A	2 HP	93" #2	72" #2	36" #2
	3 HP	96" #3	48" #3	90" #4
	4 HP	82" #3	41" #3	77" #4
	5 HP	56" #3	86" #4	68" #4
R134A/R401A R401B/R406A R409A/R500	2 HP	102" #2	79" #2	39" #2
	3 HP	105" #3	52" #3	99" #4
	4 HP	90" #3	45" #3	85" #4
	5 HP	62" #3	95" #4	75" #4
R22	2 HP	112" #2	86" #2	43" #2
	3 HP	115" #3	58" #3	108" #4
	4 HP	98" #3	49" #3	92" #4
	5 HP	68" #3	103" #4	81" #4

REF	HP	-10 LOW	+20 MED	+45 HIGH
R402B/R403B R404A/R407C R408A/R502	2 HP	30" #1	94" #2	47" #2
	3 HP	29" #2	63" #3	32" #3
	4 HP	118" #3	53" #3	27" #3
	5 HP	74" #3	30" #3	89" #4
R402A/R407A R407B/R507	2 HP	33" #1	103" #2	52" #2
	3 HP	31" #2	70" #3	35" #3
	4 HP	26" #2	58" #3	30" #3
	5 HP	82" #3	33" #3	98" #4
R410A	2 HP	40" #1	31" #1	62" #2
	3 HP	37" #2	85" #3	42" #3
	4 HP	33" #2	70" #3	36" #3
	5 HP	98" #3	40" #3	32" #3

NOTE: For Multiple Feeds with smaller HP's than those shown in the charts.

- Divide HP by number of feeds, go to Single Feed Chart, select a cap tube for the calculated HP and use that selection for each feed.
- Ex: 1 HP, LOW, R12 5 FEED USE: 1/5 HP, LOW, R12, SINGLE FEED CHART
- RESULT: 5 Feeds, 54" BC1