

Hillphoenix[®]

A **DOVER** COMPANY

CO₂One



CO₂ Condensing Unit Technical Reference Sheets

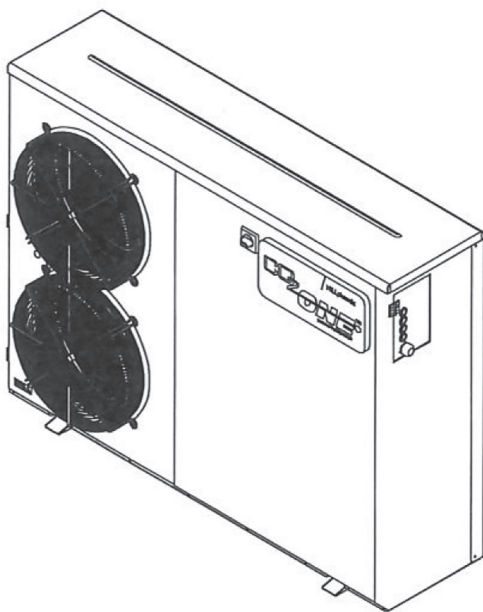
FEBRUARY 2023

CO₂One Condensing Unit

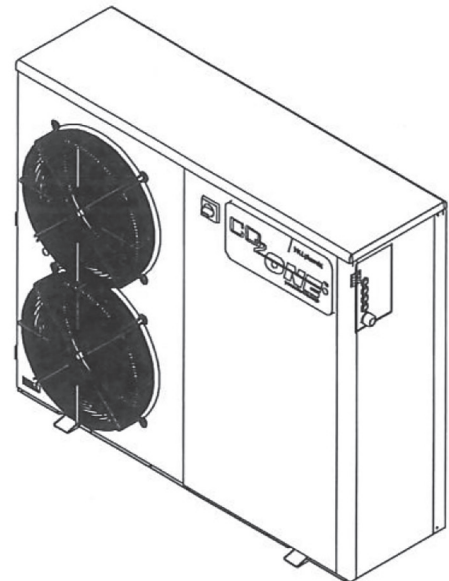
General Notes

“—” indicates that the feature is not an option on this case model and/or the data is not yet available.

LT MODELS



MT MODELS



There are seven (7) unique models:

Three (3) LT Models	1 Single-Fan LT	CN075L145XU215-H0
	2 Two-Fan LT	CN112L245XU216-H0
		CN167L245XU216-H0
Four (4) MT Models	2 Single-Fan MT	CN030M145XU215-H0
		CN045M145XU215-H0
	2 Two-Fan MT	CN067M245XU215-H0
		CN100M245U216-H0

CO₂One Condensing Unit

Hillphoenix Refrigeration Systems

CO₂One Condensing Unit – LT Models

Condensing Unit Model	Electrical Supply [V/Ph/Hz]	Full Load Amperage (FLA) [A]	Rated Load Amperage (RLA) [A]	Maximum Overcurrent Protection (MOPD) [A]	Minimum Current Ampacity (MCA) [A]	Nominal Power (Pn) [W]	Electrical Supply Requirement [VA]
CN075L145XU215-H0	230/1/60	30.8	29.6	51.6	34.9	6,125	7,500
CN112L245XU216-H0	460/3/60	18.3	15.5	29.6	20.6	9,680	12,500
CN167L245XU216-H0	460/3/60	26.0	22.3	43.4	29.5	13,880	17,500

AMBIENT TEMPERATURE 105° F (Low Temperature)

Model	Min/Max	-35° F	-30° F	-25° F	-20° F	-15° F	-10° F
CN075L145XU215-H0	Max	7,990	9,020	10,120	11,070	11,050	11,260
CN075L145XU215-H0	Min	2,640	2,730	2,740	2,660	2,750	2,920
CN112L245XU216-H0	Max	12,990	14,270	15,660	16,820	16,730	16,650
CN112L245XU216-H0	Min	4,250	4,180	4,190	4,650	5,140	5,650
CN167L245XU216-H0	Max	19,390	21,300	23,370	24,080	23,850	23,940
CN167L245XU216-H0	Min	5,950	6,030	6,260	6,940	7,670	8,440

AMBIENT TEMPERATURE 95° F (Low Temperature)

Model	Min/Max	-35° F	-30° F	-25° F	-20° F	-15° F	-10° F
CN075L145XU215-H0	Max	7,990	9,020	10,120	11,300	12,430	12,510
CN075L145XU215-H0	Min	3,120	3,040	3,080	3,150	3,150	3,060
CN112L245XU216-H0	Max	12,990	14,270	15,660	17,170	18,800	18,920
CN112L245XU216-H0	Min	4,630	4,740	4,650	4,650	5,140	5,650
CN167L245XU216-H0	Max	19,390	21,300	23,370	25,620	26,650	27,000
CN167L245XU216-H0	Min	6,720	6,660	6,720	6,940	7,670	8,440

AMBIENT TEMPERATURE 90° F (Low Temperature)

Model	Min/Max	-35° F	-30° F	-25° F	-20° F	-15° F	-10° F
CN075L145XU215-H0	Max	7,990	9,020	10,120	11,300	12,560	13,210
CN075L145XU215-H0	Min	3,320	3,250	3,310	3,280	3,290	3,360
CN112L245XU216-H0	Max	12,990	14,270	15,660	17,170	18,800	19,940
CN112L245XU216-H0	Min	5,020	5,020	4,960	4,990	5,140	5,650
CN167L245XU216-H0	Max	19,390	21,300	23,370	25,620	28,050	28,540
CN167L245XU216-H0	Min	7,110	7,080	7,170	7,190	7,670	8,440

AMBIENT TEMPERATURE 85 °F (Low Temperature)

Model	Min/Max	-35 °F	-30 °F	-25 °F	-20 °F	-15 °F	-10 °F
CN075L145XU215-H0	Max	7,990	9,020	10,120	11,300	12,560	13,900
CN075L145XU215-H0	Min	3,510	3,570	3,530	3,520	3,560	3,500
CN112L245XU216-H0	Max	12,990	14,270	15,660	17,170	18,800	20,560
CN112L245XU216-H0	Min	5,280	5,300	5,240	5,320	5,320	5,650
CN167L245XU216-H0	Max	19,390	21,300	23,370	25,620	28,050	30,380
CN167L245XU216-H0	Min	7,490	7,490	7,630	7,690	7,670	8,440

AMBIENT TEMPERATURE 75 °F (Low Temperature)

Model	Min/Max	-35 °F	-30 °F	-25 °F	-20 °F	-15 °F	-10 °F
CN075L145XU215-H0	Max	7,990	9,020	10,120	11,300	12,560	13,900
CN075L145XU215-H0	Min	4,190	4,300	4,210	4,260	4,230	4,240
CN112L245XU216-H0	Max	12,990	14,270	15,660	17,170	18,800	20,560
CN112L245XU216-H0	Min	6,300	6,420	6,490	6,490	6,410	6,450
CN167L245XU216-H0	Max	19,390	21,300	23,370	25,620	28,050	30,690
CN167L245XU216-H0	Min	9,020	8,960	9,000	8,940	9,030	9,030

AMBIENT TEMPERATURE 65 °F (Low Temperature)

Model	Min/Max	-35 °F	-30 °F	-25 °F	-20 °F	-15 °F	-10 °F
CN075L145XU215-H0	Max	7,990	9,020	10,120	11,300	12,560	13,900
CN075L145XU215-H0	Min	4,780	4,820	4,900	4,880	5,030	4,970
CN112L245XU216-H0	Max	12,990	14,270	15,660	17,170	18,800	20,560
CN112L245XU216-H0	Min	7,330	7,540	7,400	7,490	7,510	7,440
CN167L245XU216-H0	Max	19,390	21,300	23,370	25,620	28,050	30,690
CN167L245XU216-H0	Min	10,560	10,630	10,820	10,430	10,390	10,520

AMBIENT TEMPERATURE 60 °F (Low Temperature)

Model	Min/Max	-35 °F	-30 °F	-25 °F	-20 °F	-15 °F	-10 °F
CN075L145XU215-H0	Max	7,990	9,020	10,120	11,300	12,560	13,900
CN075L145XU215-H0	Min	5,070	5,140	5,240	5,250	5,440	5,410
CN112L245XU216-H0	Max	12,990	14,270	15,660	17,170	18,800	20,560
CN112L245XU216-H0	Min	7,850	8,100	8,020	8,160	7,870	7,840
CN167L245XU216-H0	Max	19,390	21,300	23,370	25,620	28,050	30,690
CN167L245XU216-H0	Min	10,940	11,050	11,280	11,180	11,200	11,110

Notes:

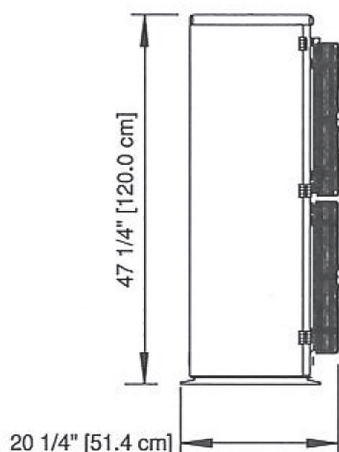
- Capacity at evaporating temperature
- Min capacity at minimum compressor speed - 25rps
- Max capacity at maximum compressor speed - 100rps

CO₂One Condensing Unit

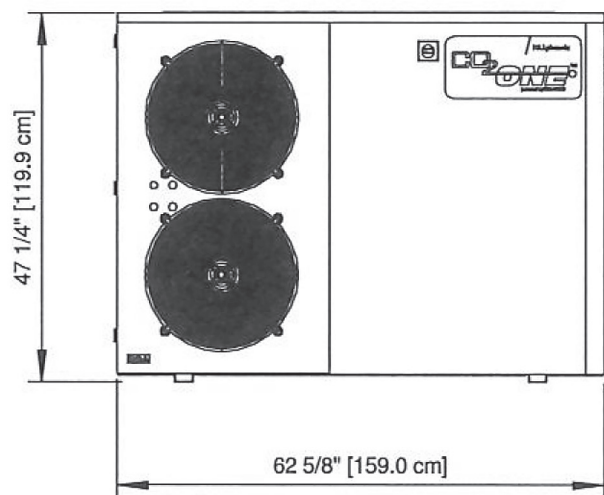
Hillphoenix Refrigeration Systems

CO₂One Condensing Unit – LT Models

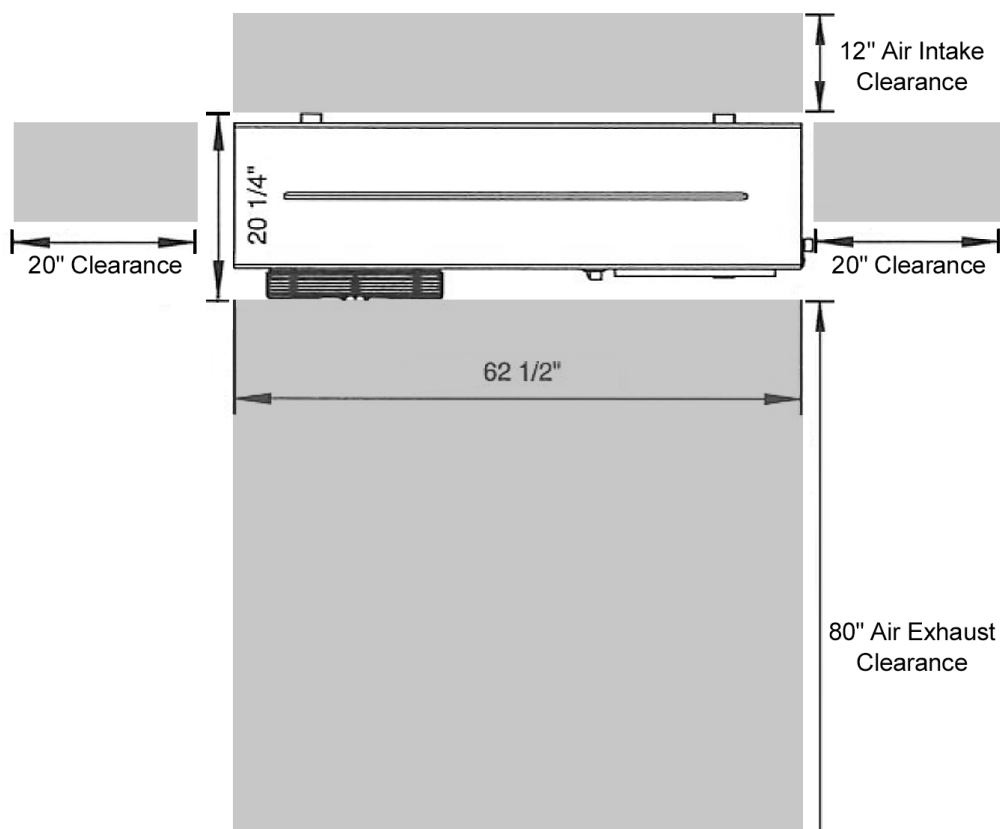
Left View



Front View



Top View



Model Numbers

CN075L145XU215-H0 (1 fan)

CN112L245XU216-H0 (2 fans)

CN167L245XU216-H0 (2 fans)

Condensing Unit Model	Electrical Supply [V/Ph/Hz]	Full Load Amperage (FLA) [A]	Rated Load Amperage (RLA) [A]	Maximum Overcurrent Protection (MOPD) [A]	Minimum Current Ampacity (MCA) [A]	Nominal Power (Pn) [W]	Electrical Supply Requirement [VA]
CN030M145XU215-H0	230/1/60	13.2	12.6	30.9	18.8	2,605	5,000
CN045M145XU215-H0	230/1/60	18.1	16.9	42.0	23.9	3,505	5,000
CN067M245XU215-H0	230/1/60	27.1	25.7	63.2	36.1	5,310	7,500
CN100M245U216-H0	460/3/60	16.1	13.9	38.4	22.3	8,660	10,000

AMBIENT TEMPERATURE 105 °F (Medium Temperature)

Model	Min/Maz	10 °F	15 °F	20 °F	25 °F	30 °F	35 °F
CN030M145XU215-H0	Max	6,310	6,910	7,560	8,250	8,980	9,750
CN030M145XU215-H0	Min	1,280	1,440	1,610	1,790	1,980	2,190
CN045M145XU215-H0	Max	9,530	10,440	11,410	12,450	13,560	14,720
CN045M145XU215-H0	Min	1,930	2,170	2,430	2,700	2,990	3,310
CN067M245XU215-H0	Max	13,620	14,930	16,330	17,820	19,380	21,030
CN067M245XU215-H0	Min	3,040	3,380	3,750	4,140	4,550	4,990
CN100M245U216-H0	Max	19,750	21,310	22,900	24,540	26,200	27,890
CN100M245U216-H0	Min	4,540	5,050	5,600	6,180	6,800	7,450

AMBIENT TEMPERATURE 95 °F (Medium Temperature)

Model	Min/Maz	10 °F	15 °F	20 °F	25 °F	30 °F	35 °F
CN030M145XU215-H0	Max	7,540	8,210	8,900	9,640	10,380	11,130
CN030M145XU215-H0	Min	1,600	1,780	1,960	2,160	2,360	2,580
CN045M145XU215-H0	Max	11,300	12,250	13,240	14,280	15,340	16,440
CN045M145XU215-H0	Min	2,410	2,680	2,960	3,260	3,570	3,890
CN067M245XU215-H0	Max	16,000	17,330	18,720	20,150	21,630	23,150
CN067M245XU215-H0	Min	3,750	4,140	4,540	4,970	5,410	5,860
CN100M245U216-H0	Max	23,200	25,100	27,090	29,140	31,260	33,430
CN100M245U216-H0	Min	5,600	6,180	6,780	7,410	8,070	8,750

AMBIENT TEMPERATURE 90 °F (Medium Temperature)

Model	Min/Maz	10 °F	15 °F	20 °F	25 °F	30 °F	35 °F
CN030M145XU215-H0	Max	8,090	8,800	9,540	10,280	11,030	11,790
CN030M145XU215-H0	Min	1,750	1,940	2,140	2,340	2,560	2,790
CN045M145XU215-H0	Max	12,070	13,050	14,070	15,120	16,210	17,320
CN045M145XU215-H0	Min	2,650	2,930	3,230	3,540	3,870	4,210
CN067M245XU215-H0	Max	17,180	18,570	20,010	21,490	23,020	24,570
CN067M245XU215-H0	Min	4,100	4,510	4,940	5,390	5,850	6,330
CN100M245U216-H0	Max	24,780	26,750	28,790	30,890	33,050	35,250
CN100M245U216-H0	Min	6,120	6,730	7,370	8,040	8,740	9,450

CO₂One Condensing Unit

Hillphoenix Refrigeration Systems

CO₂One Condensing Unit – MT Models

AMBIENT TEMPERATURE 85°F (Medium Temperature)							
Model	Min/Max	10°F	15°F	20°F	25°F	30°F	35°F
CN030M145XU215-H0	Max	8,490	9,190	9,910	10,660	11,430	12,210
CN030M145XU215-H0	Min	1,920	2,120	2,330	2,550	2,780	3,010
CN045M145XU215-H0	Max	12,520	13,540	14,590	15,670	16,790	17,920
CN045M145XU215-H0	Min	2,890	3,200	3,510	3,850	4,190	4,510
CN067M245XU215-H0	Max	17,870	19,300	20,780	22,310	23,880	25,470
CN067M245XU215-H0	Min	4,440	4,920	5,380	5,860	6,340	6,820
CN100M245U216-H0	Max	25,760	27,790	29,890	32,050	34,250	36,500
CN100M245U216-H0	Min	6,680	7,320	7,970	8,650	9,340	10,050

AMBIENT TEMPERATURE 75°F (Medium Temperature)							
Model	Min/Max	10°F	15°F	20°F	25°F	30°F	35°F
CN030M145XU215-H0	Max	10,270	11,170	13,630	14,750	15,910	17,130
CN030M145XU215-H0	Min	2,470	2,730	3,400	3,730	4,070	4,440
CN045M145XU215-H0	Max	14,890	16,150	19,780	21,340	22,970	24,660
CN045M145XU215-H0	Min	3,700	4,090	5,080	5,570	6,080	6,630
CN067M245XU215-H0	Max	20,240	22,110	26,610	28,590	30,640	32,750
CN067M245XU215-H0	Min	5,620	6,150	7,800	8,480	9,200	9,960
CN100M245U216-H0	Max	30,210	33,000	36,380	39,110	42,440	45,940
CN100M245U216-H0	Min	8,280	9,060	11,350	12,330	13,360	14,440

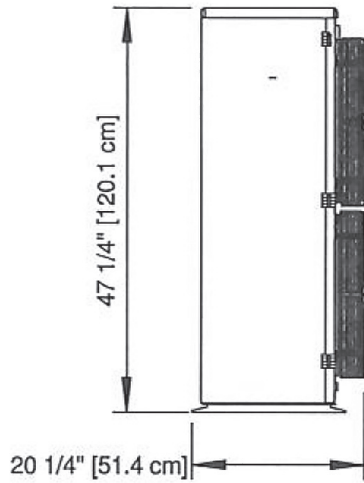
AMBIENT TEMPERATURE 65°F (Medium Temperature)							
Model	Min/Max	10°F	15°F	20°F	25°F	30°F	35°F
CN030M145XU215-H0	Max	11,560	12,570	13,630	14,750	15,910	17,130
CN030M145XU215-H0	Min	2,800	3,090	3,400	3,730	4,070	4,440
CN045M145XU215-H0	Max	16,850	18,280	19,780	21,340	22,970	24,660
CN045M145XU215-H0	Min	4,190	4,620	5,080	5,570	6,080	6,630
CN067M245XU215-H0	Max	22,870	24,700	26,610	28,590	30,640	32,750
CN067M245XU215-H0	Min	6,550	7,150	7,800	8,480	9,200	9,960
CN100M245U216-H0	Max	31,590	33,950	36,380	39,110	42,440	45,940
CN100M245U216-H0	Min	9,550	10,430	11,350	12,330	13,360	14,440

AMBIENT TEMPERATURE 60°F (Medium Temperature)							
Model	Min/Max	10°F	15°F	20°F	25°F	30°F	35°F
CN030M145XU215-H0	Max	12,150	13,220	14,340	15,510	16,740	18,020
CN030M145XU215-H0	Min	2,950	3,260	3,580	3,390	4,290	4,680
CN045M145XU215-H0	Max	17,760	19,270	20,860	22,510	24,230	26,020
CN045M145XU215-H0	Min	4,420	4,800	5,360	5,870	6,410	6,980
CN067M245XU215-H0	Max	24,180	26,120	28,140	30,240	32,410	34,650
CN067M245XU215-H0	Min	6,970	7,610	8,290	9,010	9,760	10,560
CN100M245U216-H0	Max	33,560	36,080	38,680	41,350	44,080	46,850
CN100M245U216-H0	Min	10,190	11,110	12,080	13,110	14,190	15,320

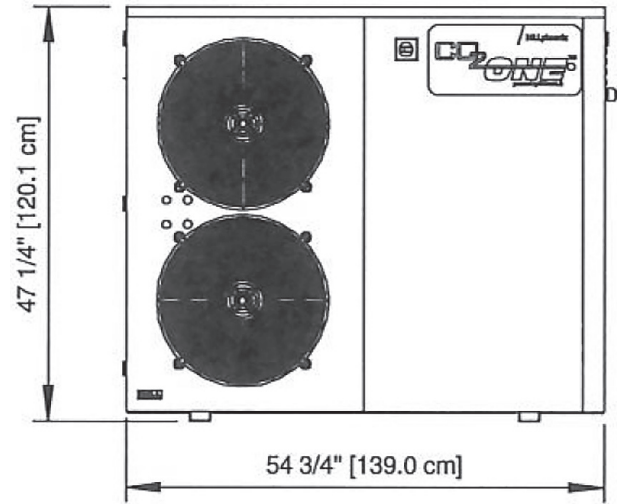
Notes:

- Capacity at evaporating temperature
- Min capacity at minimum compressor speed - 25rps
- Max capacity at maximum compressor speed - 100rps

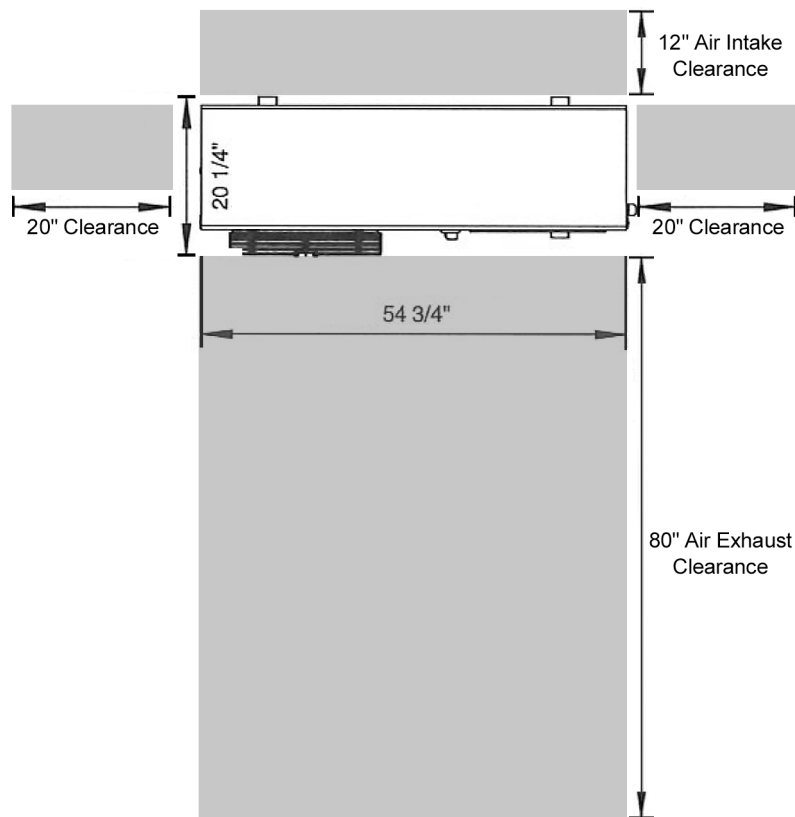
Left View



Front View



Top View



Model Numbers

CN030M145XU215-H0 (1 fan)

CN045M145XU215-H0 (1 fan)

CN067M245XU215-H0 (2 fans)

CN100M245U216-H0 (2 fans)

CO₂One Condensing Unit

Hillphoenix Refrigeration Systems

CO₂One Condensing Unit – LT & MT Models

CO ₂ One Line Sizes			
Group	Model Number	Liquid Line	Suction Line
Low-Temp CDU	CN075L145XU215-H0	3/8"	3/8"
	CN112L245XU216-H0		3/8"
	CN167L245XU216-H0		3/8"
Medium-Temp CDU	CN030M145XU215-H0	3/8"	3/8"
	CN045M145XU215-H0		3/8"
	CN067M245XU215-H0		3/8"
	CN100M245U216-H0		1/2"