

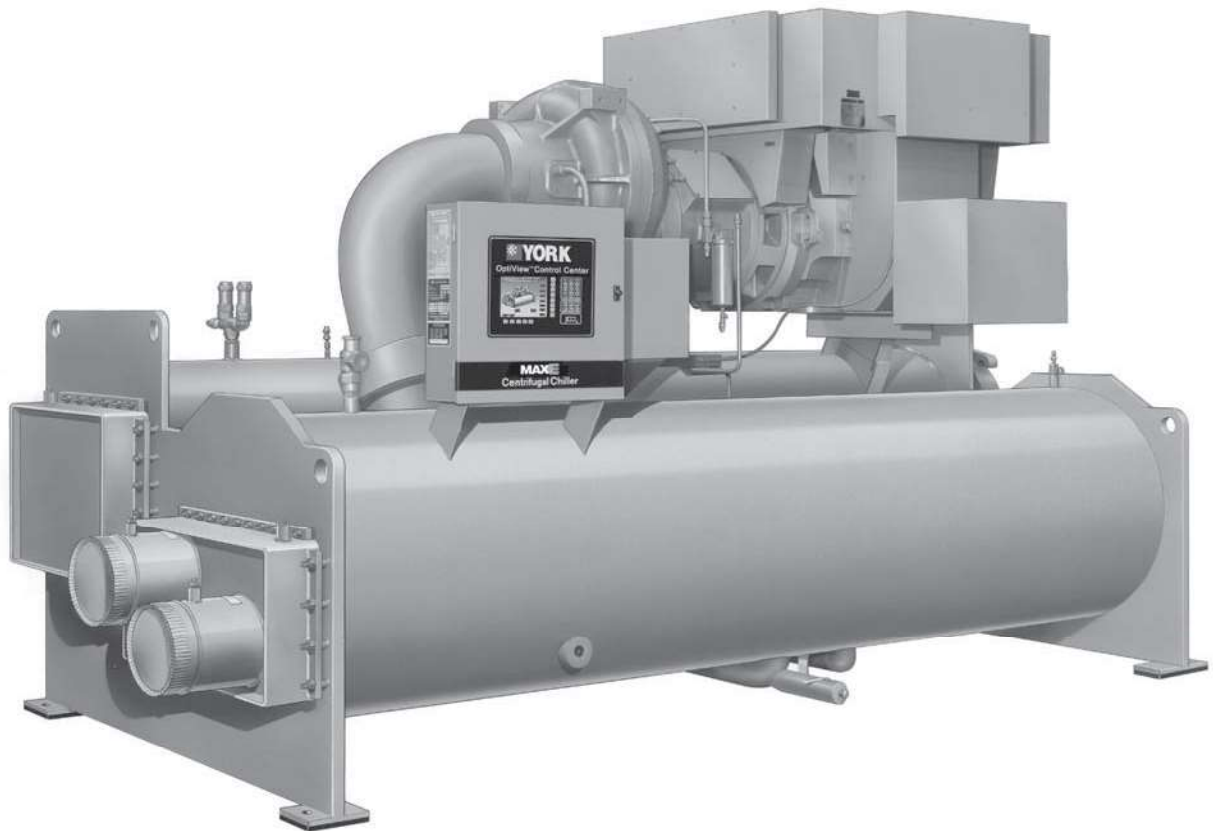
Model #: YKHDF4P8-CTGS  
Serial #: SNXM-163410

FORM 160.75-EG1 (1011)

2011  
650 Tons



BY JOHNSON CONTROLS



## *Model YK Centrifugal Liquid Chillers*

### *Design Level G*

L: 17' 9"  
W: 6' 11"  
H: 10' 7"

Shipping Weight: 23,100 lbs  
Operating Weight: 28,000 lbs

250 THROUGH 3000 TONS  
(879 through 10,500 kW)  
Utilizing HFC-134a  
Heat Recovery

Flooded Evaporator & Hybrid Falling Film Evaporator

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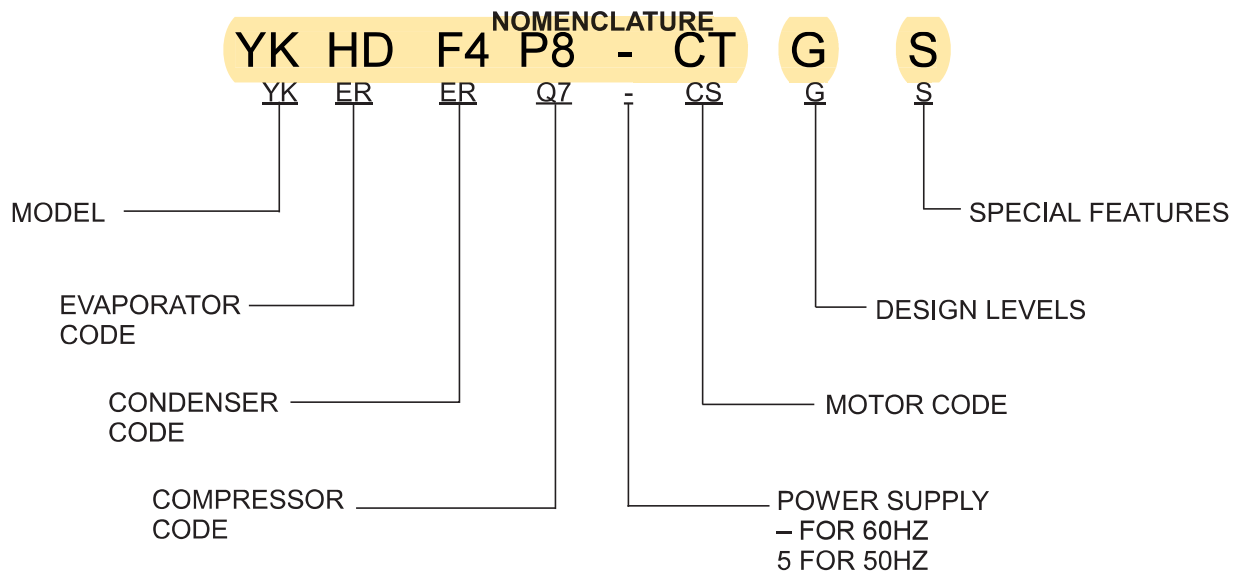
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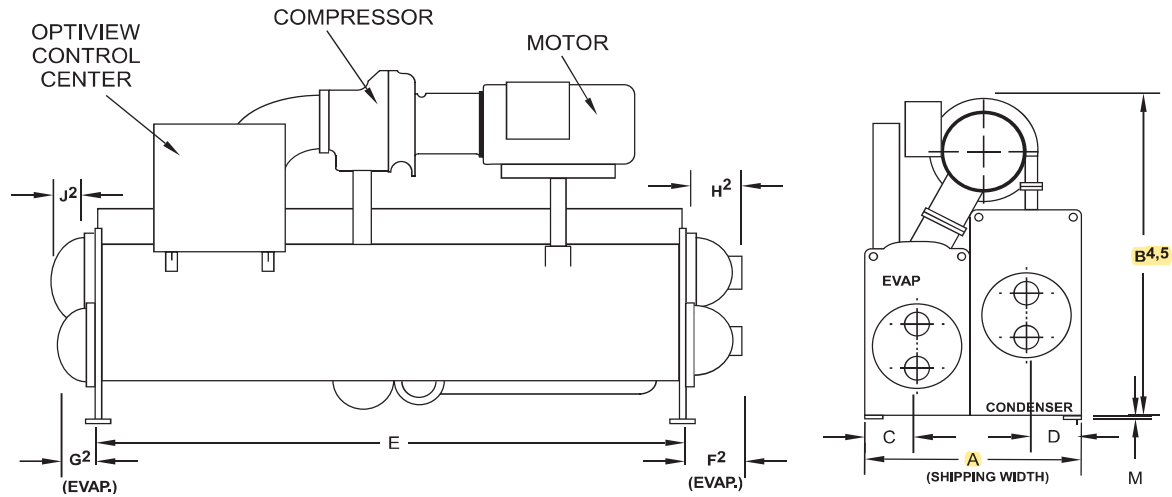
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# Dimensions (Ft. - In.) - Unit

## P & Q COMPRESSOR UNITS



### ADDITIONAL OPERATING HEIGHT CLEARANCE TO FLOOR

TYPE OF CHILLER MOUNTING	M
NEOPRENE PAD ISOLATORS	1-3/4"
SPRING ISOLATORS 1" DEFLECTION	1"
DIRECT MOUNT	3/4"

### P7, Q7 COMPRESSOR

#### EVAPORATOR-CONDENSER SHELL CODES

	E-E	E-I	F-F
A	6'-2"	7'-1 3/4"	6'-2"
B	8'-0 5/8"	8'-8"	8'-0 5/8"
C	1'-7 1/2"	1'-7 1/2"	1'-7 1/2"
D	1'-5 1/2"	1'-11 3/8"	1'-5 1/2"
E	12'-0"	12'-0"	16'-0"

### P8 COMPRESSOR

#### EVAPORATOR-CONDENSER SHELL CODES

	G-E	H-F	J-J	L-L
A	6'-11"	6'-11"	7'-6 1/2"	7'-6 1/2"
B	10'-6"	10'-6"	10'-11"	10'-11"
C	2'-0"	2'-0"	2'-1 1/4"	2'-1 1/4"
D	1'-5 1/2"	1'-5 1/2"	1'-8"	1'-8"
E	12'-0"	16'-0"	12'-0"	16'-0"

### P9 COMPRESSOR

#### EVAPORATOR-CONDENSER SHELL CODES

	H-F	J-J	L-L
A	6'-11"	7'-6 1/2"	7'-6 1/2"
B	10'-3"	10'-8 1/2"	10'-8 1/2"
C	2'-0"	2'-1 1/4"	2'-1 1/4"
D	1'-5 1/2"	1'-8"	1'-8"
E	16'-0"	12'-0"	16'-0"

### Q3 COMPRESSOR

#### EVAPORATOR-CONDENSER SHELL CODES

	A-A	C-C	D-D
A	5'-1"	5'-6"	5'-6"
B	7'-0"	7'-3 3/4"	7'-3 3/4"
C	1'-3 1/2"	1'-5 1/2"	1'-5 1/2"
D	1'-3"	1'-3 1/2"	1'-3 1/2"
E	12'-0"	12'-0"	16'-0"

### Q4 COMPRESSOR

#### EVAPORATOR-CONDENSER SHELL CODE

	C-B	C-C	D-D	E-E
A	6'-4 3/4"	5'-6"	5'-6"	7'-0"
B	7'-11 3/8"	7'-2 1/2"	7'-2 1/2"	7'-8 1/2"
C	1'-5 1/2"	1'-5 1/2"	1'-5 1/2"	1'-7 1/2"
D	1'-8 7/8"	1'-3 1/2"	1'-3 1/2"	1'-5 1/2"
E	12'-0"	12'-0"	16'-0"	12'-0"

### Q5 COMPRESSOR

#### EVAPORATOR-CONDENSER SHELL CODES

	C-C	D-D	E-E	F-F
A	5'-6"	5'-6"	7'-0"	7'-0"
B	7'-10 5/8"	7'-10 5/8"	8'-3"	8'-3"
C	1'-5 1/2"	1'-5 1/2"	1'-7 1/2"	1'-7 1/2"
D	1'-3 1/2"	1'-3 1/2"	1'-5 1/2"	1'-5 1/2"
E	12'-0"	16'-0"	12'-0"	16'-0"

### Q6 COMPRESSOR

#### EVAPORATOR-CONDENSER SHELL CODES

	E-E	F-F
A	7'-0"	7'-0"
B	8'-3"	8'-3"
C	1'-7 1/2"	1'-7 1/2"
D	1'-5 1/2"	1'-5 1/2"
E	12'-0"	16'-0"

# Weights - English

**TABLE 19 – APPROXIMATE UNIT WEIGHT INCLUDING MOTOR<sup>2</sup>**

SHELLS	COMPRESSOR	SHIPPING WEIGHT (LBS.)	OPERATING WEIGHT (LBS.)	EST. REFRIGERANT CHARGE (LBS.) <sup>1</sup>
A-A	Q3	13,100	15,000	828
C-B	Q4	18,023	22,323	1,525
C-C	Q3, Q4	14,920	17,940	1,221
C-C	Q5	15,330	18,350	1,221
D-D	Q3, Q4	17,215	21,100	1,628
D-D	Q5	17,625	21,510	1,628
E-E	Q3, Q4	17,950	22,160	1,710
E-E	Q5,Q6,Q7,P7	18,360	22,570	1,710
E-I	Q7	23,567	29,384	1,805
F-F	Q5,Q6,Q7,P7	18,720	23,880	2,175
G-E	P8	20,300	24,200	1,990
H-F	P8,P9	23,100	28,000	2,610
J-J	P8,P9	24,000	29,100	2,550
L-L	P8,P9	27,400	33,900	3,165
K-K	H9	28,530	36,000	2,925
K-K	K1	31,100	36,200	3,248
K-O	H9	34,483	44,776	3,260
M-M	H9	34,200	43,600	3,665
M-M	K1,K2	38,300	47,100	3,665
M-U	K2	45,178	58,017	3,540
N-N	K1,K2	40,893	50,800	4,225
N-N	K3	48,000	54,100	4,225
P-P	K1,K2	41,500	51,900	3,855
Q-Q	K1,K2	45,300	56,800	4,255
Q-Q	K3	46,000	60,200	4,255
R-R	K3	52,800	70,300	4,600
R-R	K4	53,000	70,600	4,600
S-S	K4	59,000	76,300	4,815
S-V	K4	60,100	81,300	5,467
X-T	K4	59,200	80,000	5,338
X-X	K4	66,000	87,000	5,875
W-W	K7	79,500	104,000	8,002
Z-Y	K7	95,230	123,015	7,175
Z-Z	K7	80,500	105,000	6,984

<sup>1</sup> Refrigerant charge quantity and weights will vary based on tube count.

<sup>2</sup> Refer to product drawings for detailed weight information.

**TABLE 20 – APPROXIMATE UNIT WEIGHT INCLUDING MOTOR**

UNIT WITH HYBRID FALLING FILM EVAPORATOR				
SHELLS	COMPRESSOR	SHIPPING WEIGHT (LBS.)	OPERATING WEIGHT (LBS.)	EST. REFRIGERANT CHARGE (LBS.) <sup>1</sup>
A-A	Q3	12,850	14,419	695
C-C	Q3, Q4	14,570	16,848	875
C-C	Q5	15,000	17,278	875
D-D	Q4	17,000	20,051	1,180
D-D	Q5	17,410	20,461	1,180
E-E	Q5,Q6,Q7,P7	18,700	21,700	1,120
F-F	Q5,Q6,Q7,P7	19,220	23,142	1,415
G-E	P8, P9	20,640	24,036	1,320
H-F	P8, P9	23,540	28,083	1,775
K-K	H9	28,850	34,079	1,820

<sup>1</sup> Refrigerant charge quantity and weights will vary based on tube count and configuration. Use for reference only.