



Air Cooled Condensing Units



Regional Sales & After Sales Service Contact :

WOLF INTERNATIONAL



WOLF NOMENCLATURE

<u>W</u>	<u>O</u>	<u>T3</u>	<u>V</u>	<u>330</u>	<u>C</u>	<u>W</u>	<u>S</u>
WOLF	OUTDOOR UNIT	TROPICAL	VERTICAL CONDENSER DISCHARGE	NOMINAL CAPACITY MBH 330 / 360 / 390 / 450 / 510 / 570 / 630 / 780 / 870	COOLING ONLY	WIRED CONTROL	380-415V / 3PH / 50Hz

FEATURES

- Hi - Reliability Compressor
- Internal pressure relief valve provides high pressure protection for compressor
- Compressor internal overload protection
- Vertical air - discharge
- Out side pressure taps for refrigerant system check
- Factory supplied charge of R-22
- 3/8" Ø Heat exchanger
- Energy Saving Gold Fin - High quality anti corrosive

This range of units are suitable for high static requirements used for Light commercial & commercial application. The units are completely assembled, piped and wired at the factory. The indoor and outdoor units are separately packed & shipped.

Each unit was tested for pressure and has a holding charge of R22 for storage and for shipping.

The compact design, quiet operation and higher cooling capacity make the condensing units suitable for any outdoor location.

All shipped metal parts are made of commercial grade galvanized steel.

After fabrication, each part is cleaned & coated with baked enamel paint. A complete line of high static blower units are available for precise capacity of application.

Durable, dependable components

Weatherproof cabinets are constructed of galvanized steel with power coated painting.

Compact size enables the unit to be located where space is limited.

Condenser fin guard is designed for safety against sharp edge of outdoor coil.

Tight top cover and cabinet

The units incorporate two or three layers top cover. The two or three piece layers overlaps in such a way that water cannot leak into the unit. These overlapped edges are gasketed and sealed to ensure superior water integrity.

Products quality and reliability

All of WOLF outdoor units were rigorously rain test at the factory to ensure water tight integrity.

Actual shipping tests are performed to determine the best packing. Units are shipped around the country to obtain the best packing test result. These tests assure that the unit will arrive at your job site in best condition.

We perform 100% coil leak test at the factory. The outdoor coils are leak tested at 300psig and pressure tested to 500psig respectively.

Every unit goes under full run test to meet WOLF standards requirement.

Before units are shipped, 5 units which are selected by sampling are STLT (Short Time. Lift Test) tested more than 360 hours.



Specifications 50 Hz

Model			WOT3V-330 CWS	WOT3V-360 CWS	WOT3V-390 CWS	WOT3V-450 CWS	WOT3V-510 CWS			
Cooling Capacity (1)	TR		26.3	28.4	30.6	35.9	41.1			
	kW		92.4	100.0	107.7	126.0	144.3			
Cooling Capacity (2)	TR		23.0	24.9	26.9	31.5	36.2			
	kW		80.8	87.6	94.4	110.8	127.2			
EER (3)	Btuh/W		11.5	11.5	11.5	11.5	11.5			
Compressor	Type	-	Fully Hermatic Scroll							
	Code	-	SM160	SM160	SM185	SM185	SM185	SY240	SY240	
	Quantity	-	2	1	1	2	1	1	2	
	Oil Charge per Compressor	US Gallon		1	1	1.6	1.6	1.6	2.1	2.1
		Liter		4	4	6.2	6.2	6.2	8	8
Condenser	Coil	Type	Air cooled copper tubes aluminium fins							
		Face Area	ft²	36.2	47.6	47.6	50.4	50.4		
			m²	3.36	4.42	4.42	4.68	4.68		
	Fan	Type	Propeller direct drive aluminium blade							
		Dia. / Qty	-	600 / 3	630 / 3	630 / 3	600 / 6	600 / 6		
			Air Flow Rate	cfm	14830	18855	18855	29660	29660	
				l/s	7001	8900	8900	14002	14002	
	Motor	Type	Class B or F insulation							
		Power Input	kW	3 × 0.52	3 × 0.9	3 × 0.9	6 × 0.52	6 × 0.52		
	Refrigerant Operating Charge R-22	lbs		17/Circuit	17	20	20/Circuit	20	26.4	26.4/Circuit
kg			7.7/Circuit	7.7	9	9/Circuit	9	12	12/Circuit	
Number of Refrigerant Circuits	-		2	2	2	2	2			
Capacity Steps	%		100-50-0	100-54-0	100-50-0	100-56-0	100-50-0			
Machine Operating Weight (approximate)	lbs		1373	1742	1786	2606	2756			
	kg		623	790	810	1182	1250			

Model			WOT3V-570 CWS	WOT3V-630 CWS	WOT3V-780 CWS	WOT3V-870 CWS			
Cooling Capacity (1)	TR		46.5	52.6	57.9	63.3			
	kW		163.6	185.1	203.8	222.4			
Cooling Capacity (2)	TR		41.1	46.1	51.1	56.1			
	kW		144.6	162.1	179.5	196.9			
EER	Btuh/W		11.5	11.7	11.7	11.8	11.8		
Compressor	Type	-	Fully Hermatic Scroll						
	Code	-	SY240	SY300	SY300	SY300	SY380	SY380	
	Quantity	-	1	1	2	1	1	2	
	Oil Charge per Compressor	US Gallon		2.1	2.1	2.1	2.1	2.2	2.2
		Liter		8	8	8	8	8.4	8.4
Condenser	Coil	Type	Air cooled copper tubes aluminium fins						
		Face Area	ft²	63.3	63.3	71	71		
			m²	5.88	5.88	6.6	6.6		
	Fan	Type	Propeller direct drive aluminium blade						
		Dia. / Qty	-	600 / 6	600 / 6	630 / 8	630 / 8		
			Air Flow Rate	cfm	29660	29660	50846	50846	
				l/s	14002	14002	24005	24005	
	Motor	Type	Class B or F insulation						
		Power Input	kW	6 × 0.52	6 × 0.52	8 × 0.92	8 × 0.92		
	Refrigerant Operating Charge R-22	lbs		26.4	33.9	33.9/Circuit	33.9	40.7	40.7/Circuit
kg			12	15.4	15.4/Circuit	15.4	18.5	18.5/Circuit	
Number of Refrigerant Circuits	-		2	2	2	2			
Capacity Steps	%		100-56-0	100-50-0	100-56-0	100-50-0			
Machine Operating Weight (approximate)	lbs		3172	3247	3684	3752			
	kg		1439	1473	1671	1702			

- (1) Cooling Capacity at 95°F (35°C) condenser entering air temperature and 45°F (7.2°C) saturated suction temperature.
(2) Cooling Capacity at 115°F (46°C) condenser entering air temperature and 45°F (7.2°C) saturated suction temperature.
(3) EER at 130°F (54.4°C) condensing temperature and 45°F (7.2°C) saturated suction temperature.



Performance Data

WOT3V-330CWS						
Outdoor Ambient Temp. (°C)	Saturated Evaporator Temperature °C					
	4		7		10	
	TKW	PI (KW)	TKW	PI (KW)	TKW	PI (KW)
24	98.1	16.7	105.9	17.1	114.0	17.5
29	92.0	18.4	99.6	18.9	107.5	19.2
35	85.8	20.2	90.2	20.6	101.0	21.0
41	79.7	21.9	87.1	22.3	94.5	22.8
46	73.5	23.6	80.8	24.0	88.0	24.5
52	67.3	25.3	74.5	25.7	81.5	26.3

WOT3V-510CWS						
Outdoor Ambient Temp. (°C)	Saturated Evaporator Temperature °C					
	4		7		10	
	TKW	PI (KW)	TKW	PI (KW)	TKW	PI (KW)
24	154.5	26.3	166.7	26.9	179.4	27.6
29	144.8	28.9	156.9	29.7	169.2	30.3
35	135.1	31.8	142.0	32.4	159.0	33.1
41	125.4	34.5	137.1	35.1	148.8	36.0
46	115.7	37.2	127.2	37.8	138.6	38.6
52	106.0	39.8	117.3	40.4	128.3	41.3

WOT3V-360CWS						
Outdoor Ambient Temp. (°C)	Saturated Evaporator Temperature °C					
	4		7		10	
	TKW	PI (KW)	TKW	PI (KW)	TKW	PI (KW)
24	106.4	18.1	114.8	18.5	123.6	19.0
29	99.7	19.9	108.0	20.4	116.5	20.9
35	93.0	21.9	97.8	22.3	109.5	22.8
41	86.4	23.7	94.4	24.1	102.5	24.8
46	79.7	25.6	87.6	26.0	95.4	26.6
52	73.0	27.4	80.8	27.8	88.4	28.5

WOT3V-570CWS						
Outdoor Ambient Temp. (°C)	Saturated Evaporator Temperature °C					
	4		7		10	
	TKW	PI (KW)	TKW	PI (KW)	TKW	PI (KW)
24	175.6	29.6	189.6	30.3	204.0	31.1
29	164.6	32.6	178.3	33.5	192.3	34.1
35	153.6	35.8	161.5	36.5	180.7	37.3
41	142.6	38.8	155.8	39.5	169.1	40.5
46	131.5	41.9	144.6	42.5	157.5	43.6
52	120.5	44.9	133.4	45.6	145.9	46.6

WOT3V-390CWS						
Outdoor Ambient Temp. (°C)	Saturated Evaporator Temperature °C					
	4		7		10	
	TKW	PI (KW)	TKW	PI (KW)	TKW	PI (KW)
24	114.7	19.5	123.7	19.9	133.2	20.5
29	107.5	21.5	116.4	22.0	125.6	22.5
35	100.3	23.6	105.4	24.0	118.0	24.6
41	93.1	25.6	101.7	26.0	110.4	26.7
46	85.9	27.6	94.4	28.0	102.8	28.7
52	78.7	29.6	87.1	30.0	95.2	30.7

WOT3V-630CWS						
Outdoor Ambient Temp. (°C)	Saturated Evaporator Temperature °C					
	4		7		10	
	TKW	PI (KW)	TKW	PI (KW)	TKW	PI (KW)
24	196.9	32.9	212.5	33.6	228.7	34.6
29	184.5	36.3	199.9	37.2	215.6	37.9
35	172.2	39.8	181.0	40.6	202.6	41.5
41	159.8	43.2	174.7	43.9	189.6	45.0
46	147.5	46.5	162.1	47.3	176.6	48.4
52	135.1	49.9	149.5	50.7	163.5	51.8

WOT3V-450CWS						
Outdoor Ambient Temp. (°C)	Saturated Evaporator Temperature °C					
	4		7		10	
	TKW	PI (KW)	TKW	PI (KW)	TKW	PI (KW)
24	134.6	22.9	145.2	23.4	156.3	24.0
29	126.1	25.2	136.6	25.9	147.4	26.4
35	117.7	27.7	123.7	28.2	138.5	28.9
41	109.2	30.0	119.4	30.5	129.6	31.3
46	100.8	32.4	110.8	32.9	120.7	33.7
52	92.4	34.7	102.2	35.2	111.8	36.0

WOT3V-780CWS						
Outdoor Ambient Temp. (°C)	Saturated Evaporator Temperature °C					
	4		7		10	
	TKW	PI (KW)	TKW	PI (KW)	TKW	PI (KW)
24	218.0	36.1	235.3	36.9	253.2	38.0
29	204.3	39.8	221.4	40.8	238.8	41.7
35	190.7	43.7	200.4	44.5	224.4	45.6
41	177.0	47.4	193.4	48.2	210.0	49.5
46	163.3	51.1	179.5	51.9	195.5	53.1
52	149.6	54.8	165.6	55.6	181.1	56.8



Performance Data

WOT3V-870CWS						
Outdoor Ambient Temp. (°C)	Saturated Evaporator Temperature °C					
	4		7		10	
	TKW	PI (KW)	TKW	PI (KW)	TKW	PI (KW)
24	239.2	39.6	258.1	40.5	277.7	41.6
29	224.1	43.7	242.8	44.8	261.9	45.7
35	209.1	47.9	219.9	48.8	246.1	50.0
41	194.1	52.0	212.2	52.9	230.3	54.2
46	179.1	56.1	196.9	57.0	214.5	58.3
52	164.1	60.1	181.6	61.0	198.6	62.4

Electrical Data

380-415V / 3PH / 50Hz

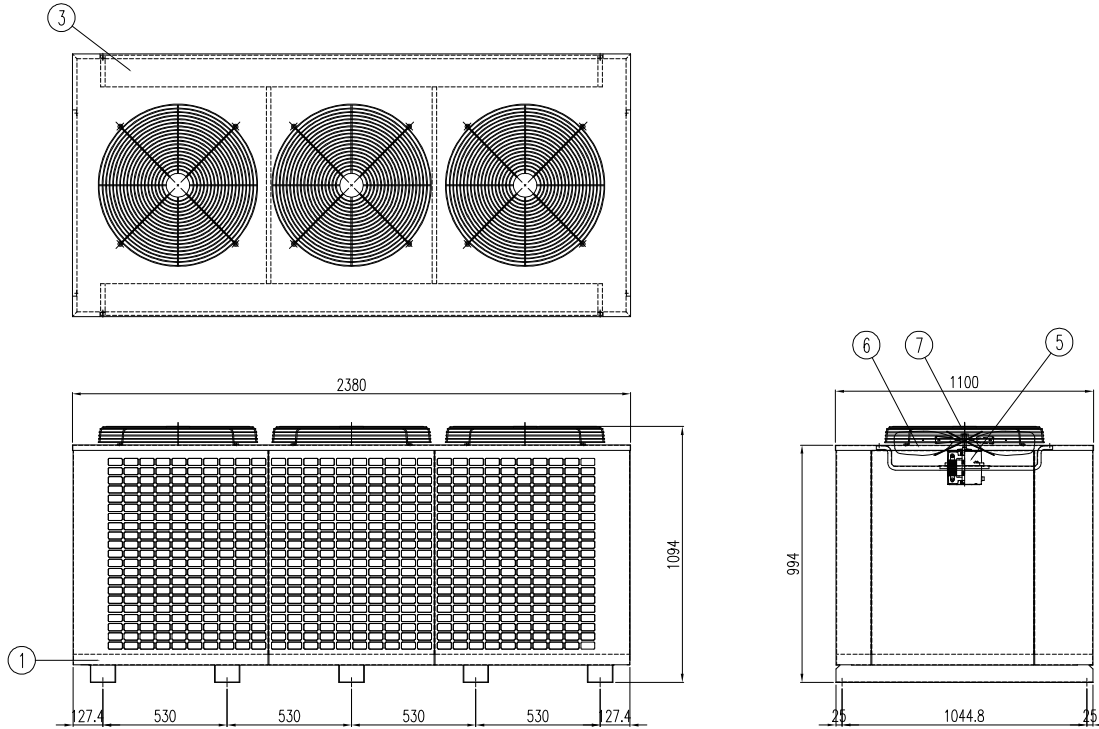
Model	Unit Characterist		Compressor				Condenser Fan Motor		
	MFA	MCA	Qty.	MRC Each	RLA Each	LRA Each	Qty.	FLA Each	LRA Each
WOT3V-330 CWS	80	54.5	2	30	21	155	3	0.68	2
WOT3V-360 CWS	100	62.9	1	30	21	155	3	2.2	6.4
			1	34	24	155			
WOT3V-390 CWS	100	66.6	2	34	24	155	3	2.2	6.4
WOT3V-450 CWS	125	78.6	1	34	24	155	6	0.68	2
			1	50	35.7	215			
WOT3V-510 CWS	160	93.3	2	50	35.7	215	6	0.68	2
WOT3V-570 CWS	160	110.3	1	50	35.7	215	6	0.68	2
			1	69	49.3	270			
WOT3V-630 CWS	200	127.3	2	69	49.3	270	6	0.68	2
WOT3V-780 CWS	200	142.1	1	69	49.3	270	8	1.25	3.6
			1	79	56.4	320			
WOT3V-870 CWS	250	151	2	79	56.4	320	8	1.25	3.6

Legend

- MFA : Maximum Fuse Amperes
- MCA : Minimum Circuit Amperes (for wire sizing)
- MRC : Maximum Running Current
- RLA : Rated Load Amperes
- LRA : Locked Rotor Amperes
- FLA : Full Load Amperes



Unit Dimensions



NOTE

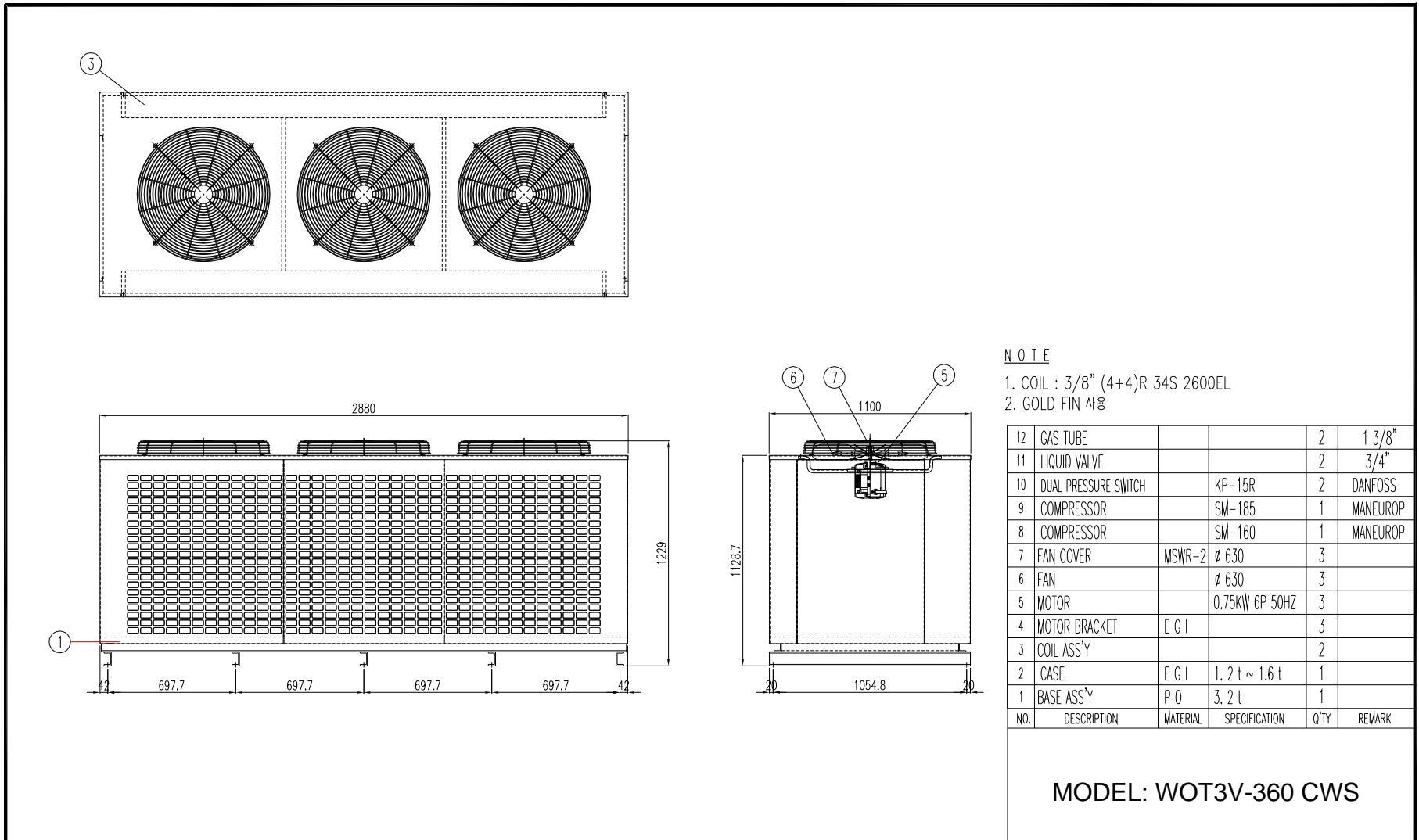
1. COIL : 3/8" (4+4)R 32S 2100EL
2. GOLD FIN 사용

11	GAS TUBE			2	1 3/8"
10	LIQUID VALVE			2	3/4"
9	DUAL PRESSURE SWITCH		KP-15R	2	DANFOSS
8	COMPRESSOR		SM-160	2	MANEUROP
7	FAN COVER	MSWR-2	∅ 600	3	
6	FAN		∅ 600	3	
5	MOTOR		0.4KW 6P 50HZ	3	
4	MOTOR BRACKET	E G I		3	
3	COIL ASS'Y			2	
2	CASE	E G I	1.2 t ~ 1.6 t	1	
1	BASE ASS'Y	P O	3.2 t	1	
NO.	DESCRIPTION	MATERIAL	SPECIFICATION	Q'TY	REMARK

MODEL: WOT3V-330 CWS

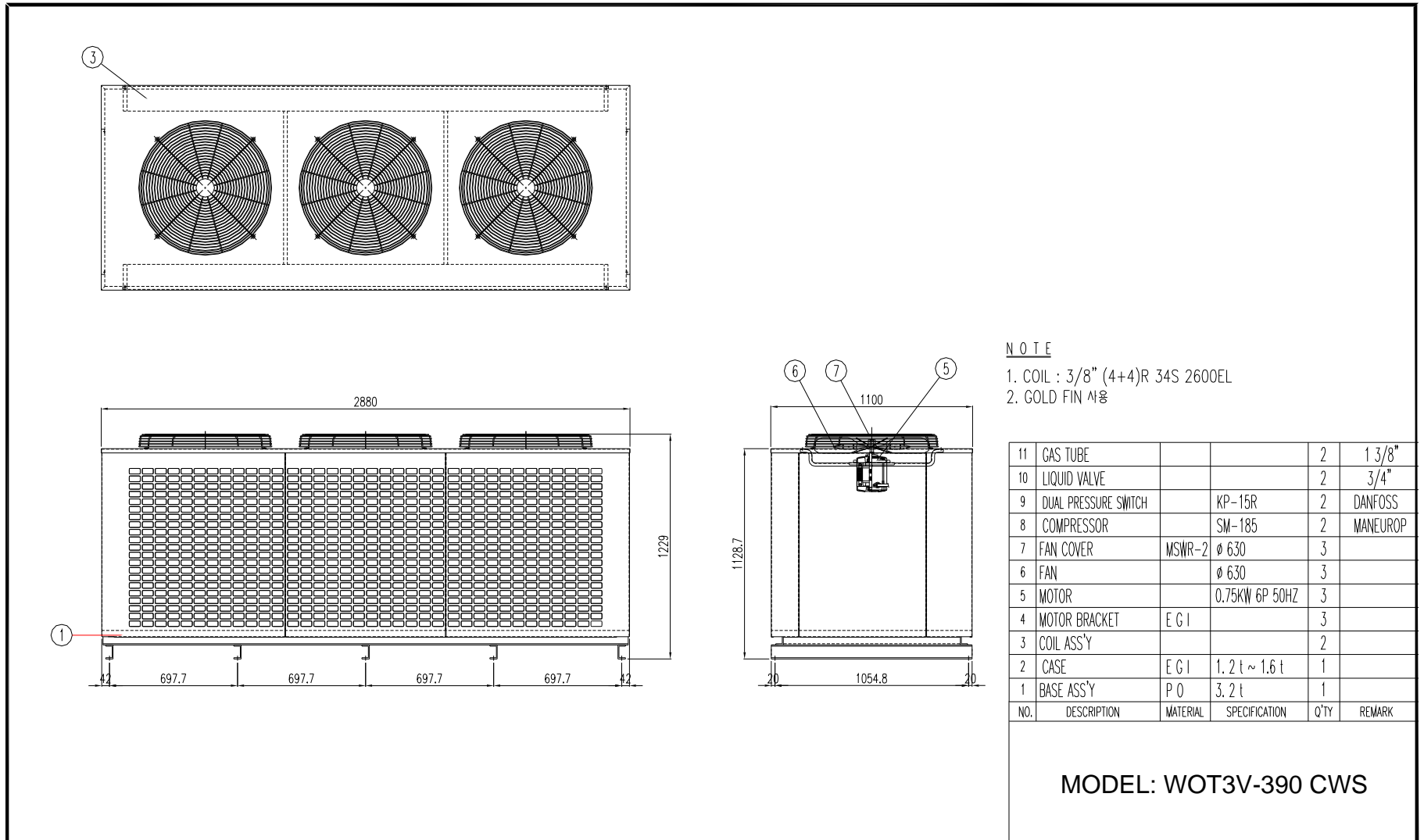


Unit Dimensions



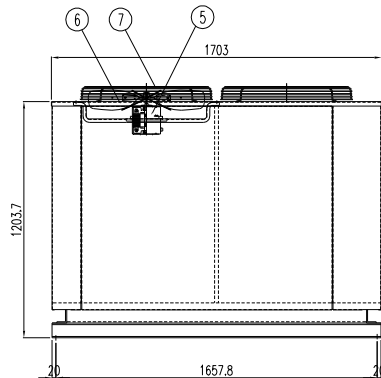
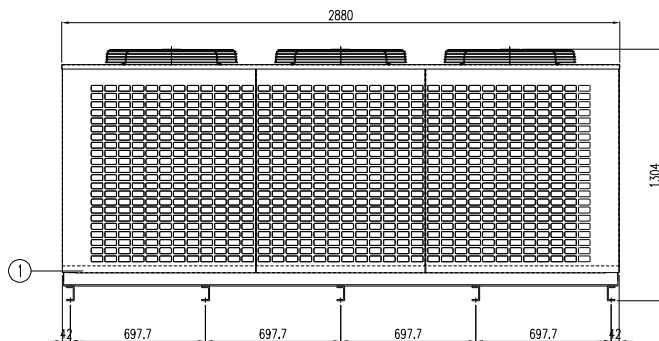
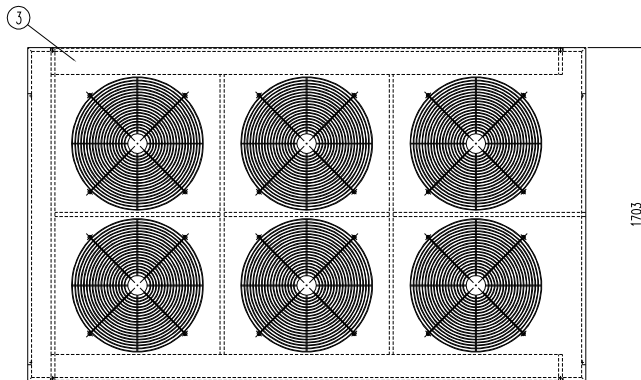


Unit Dimensions





Unit Dimensions



NOTE

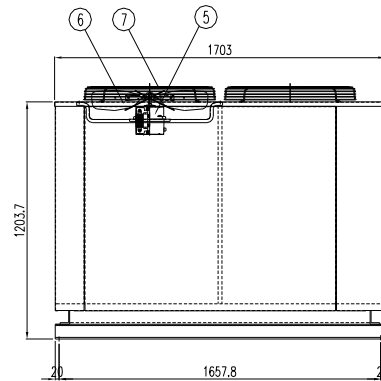
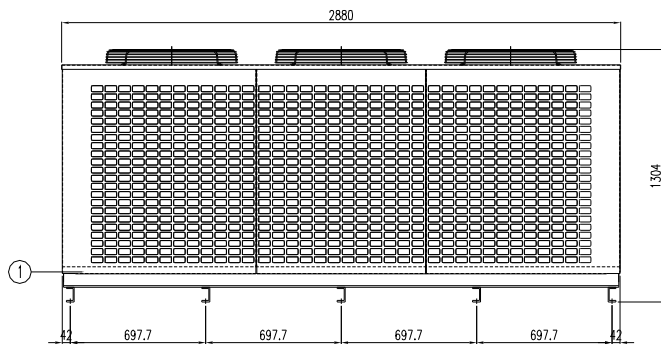
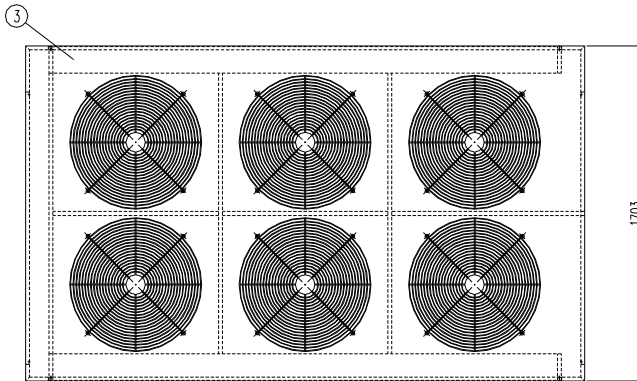
1. COIL : 3/8" (4+4)R 36S 2600EL
2. GOLD FIN 사용

12	GAS TUBE			2	1 5/8"
11	LIQUID VALVE			2	3/4"
10	DUAL PRESSURE SWITCH	KP-15R		2	DANFOSS
9	COMPRESSOR	SY-240		1	MANEUROP
8	COMPRESSOR	SM 185		1	MANEUROP
7	FAN COVER	MSWR-2	∅ 600	6	
6	FAN		∅ 600	6	
5	MOTOR		0.4KW 6P 50HZ	6	
4	MOTOR BRACKET	E G I		6	
3	COIL ASS'Y			2	
2	CASE	E G I	1.2 t ~ 1.6 t	1	
1	BASE ASS'Y	P O	3.2 t	1	
NO.	DESCRIPTION	MATERIAL	SPECIFICATION	Q'TY	REMARK

MODEL: WOT3V-450 CWS



Unit Dimensions



NOTE

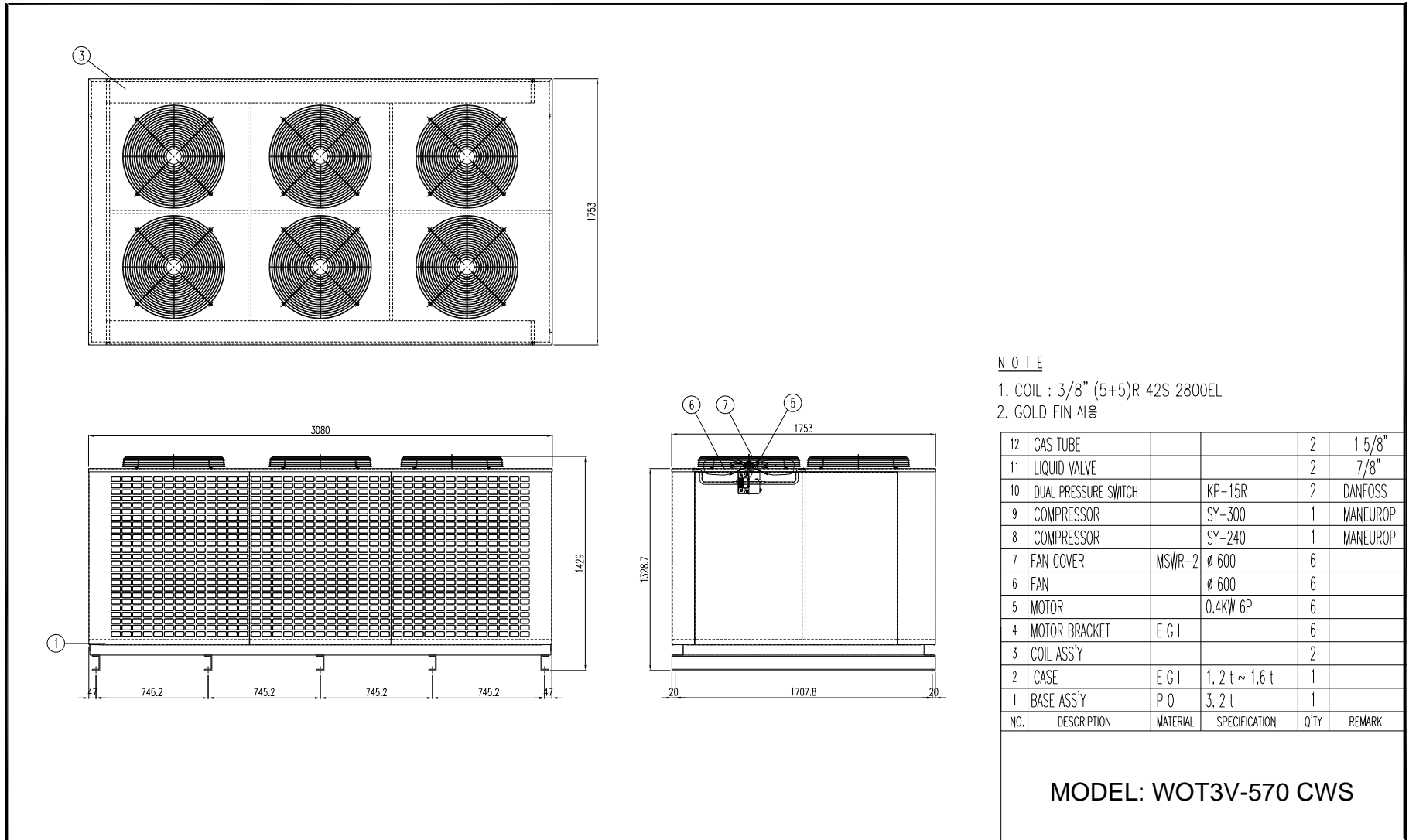
1. COIL : 3/8" (4+4)R 36S 2600EL
2. GOLD FIN 사용

11	GAS TUBE			2	1 5/8"
10	LIQUID VALVE			2	3/4"
9	DUAL PRESSURE SWITCH		KP-15R	2	DANFOSS
8	COMPRESSOR		SY-240	2	MANEUROP
7	FAN COVER	MSWR-2	∅ 600	6	
6	FAN		∅ 600	6	
5	MOTOR		0.4KW 6P 50HZ	6	
4	MOTOR BRACKET	E G I		6	
3	COIL ASS'Y			2	
2	CASE	E G I	1.2 t ~ 1.6 t	1	
1	BASE ASS'Y	P O	3.2 t	1	
NO.	DESCRIPTION	MATERIAL	SPECIFICATION	Q'TY	REMARK

MODEL: WOT3V-510 CWS



Unit Dimensions



NOTE

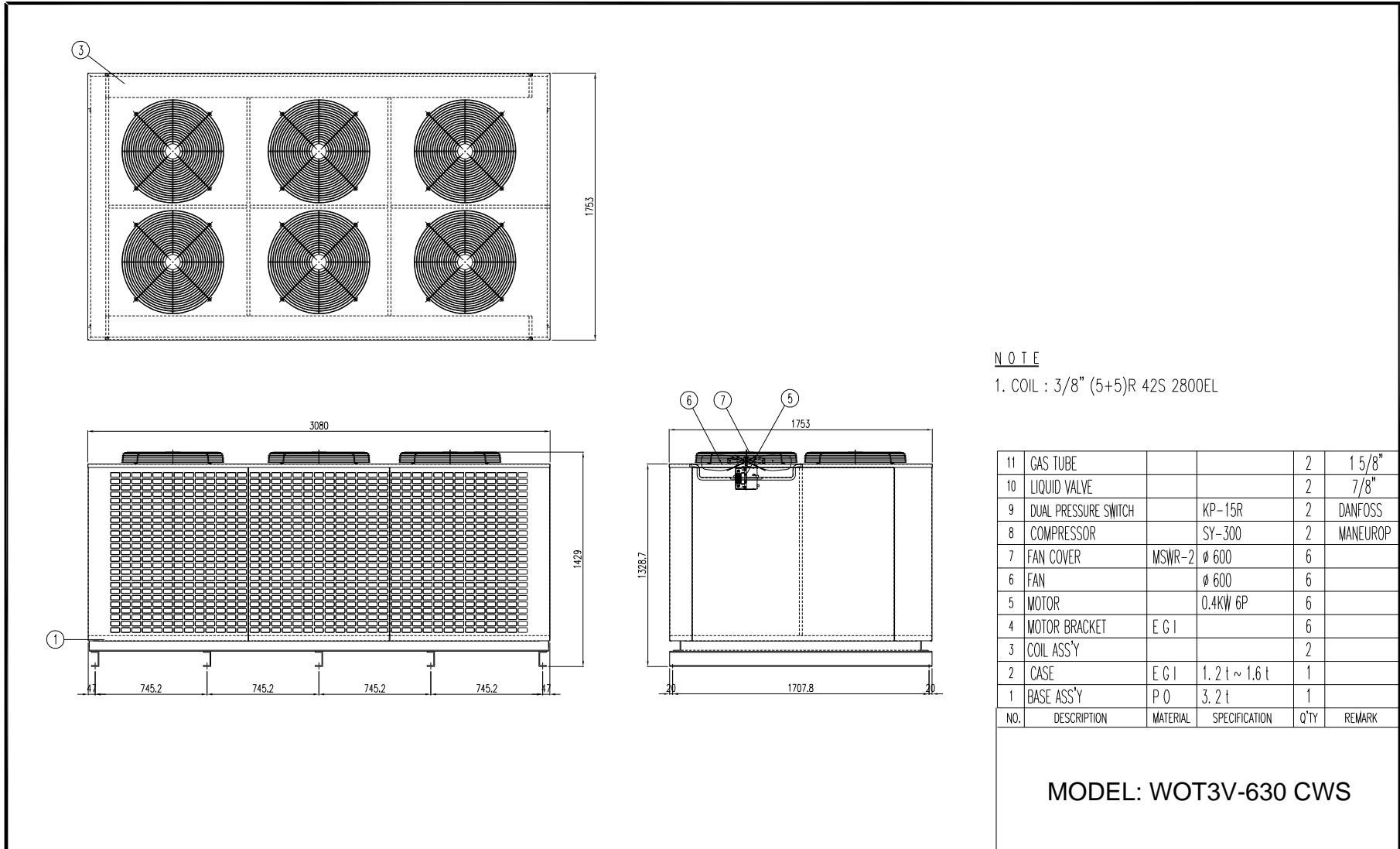
1. COIL : 3/8" (5+5)R 42S 2800EL
2. GOLD FIN 사용

12	GAS TUBE			2	1 5/8"
11	LIQUID VALVE			2	7/8"
10	DUAL PRESSURE SWITCH		KP-15R	2	DANFOSS
9	COMPRESSOR		SY-300	1	MANEUROP
8	COMPRESSOR		SY-240	1	MANEUROP
7	FAN COVER	MSWR-2	∅ 600	6	
6	FAN		∅ 600	6	
5	MOTOR		0.4KW 6P	6	
4	MOTOR BRACKET	E G I		6	
3	COIL ASS'Y			2	
2	CASE	E G I	1.2 t ~ 1.6 t	1	
1	BASE ASS'Y	P O	3.2 t	1	
NO.	DESCRIPTION	MATERIAL	SPECIFICATION	Q'TY	REMARK

MODEL: WOT3V-570 CWS



Unit Dimensions



NOTE

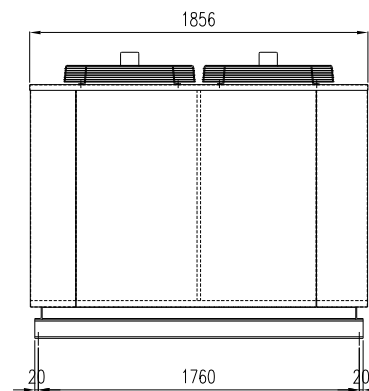
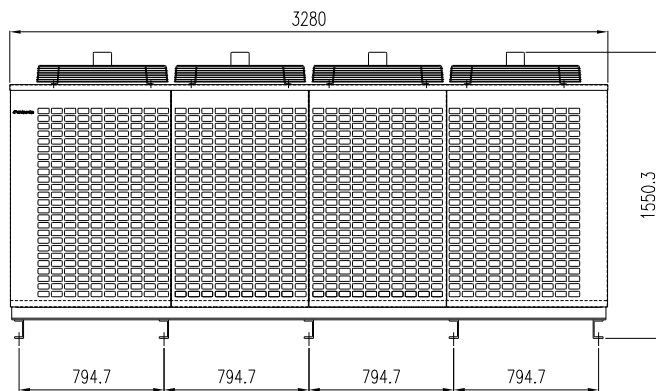
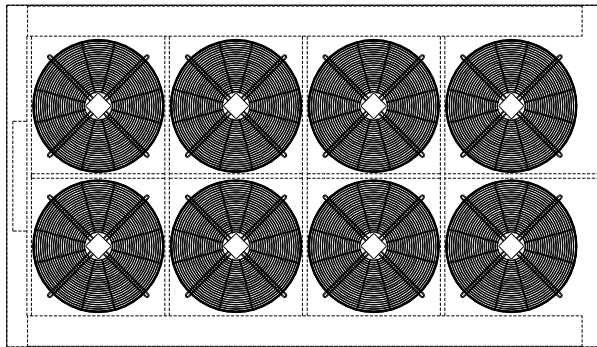
1. COIL : 3/8" (5+5)R 42S 2800EL

11	GAS TUBE			2	1 5/8"
10	LIQUID VALVE			2	7/8"
9	DUAL PRESSURE SWITCH		KP-15R	2	DANFOSS
8	COMPRESSOR		SY-300	2	MANEUROP
7	FAN COVER	MSWR-2	∅ 600	6	
6	FAN		∅ 600	6	
5	MOTOR		0.4KW 6P	6	
4	MOTOR BRACKET	E G I		6	
3	COIL ASS'Y			2	
2	CASE	E G I	1.2 t ~ 1.6 t	1	
1	BASE ASS'Y	P O	3.2 t	1	
NO.	DESCRIPTION	MATERIAL	SPECIFICATION	Q'TY	REMARK

MODEL: WOT3V-630 CWS



Unit Dimensions



NOTE

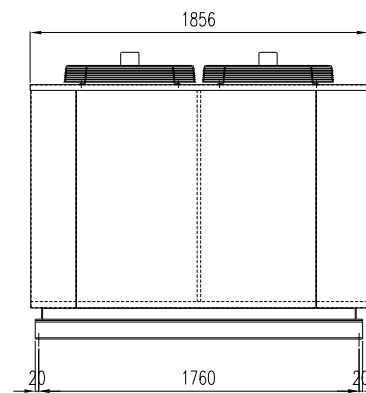
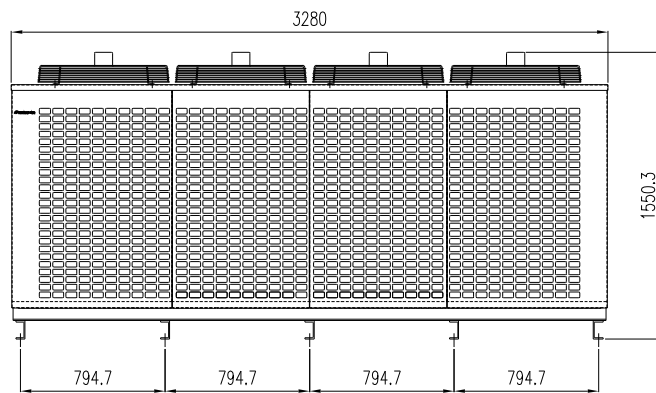
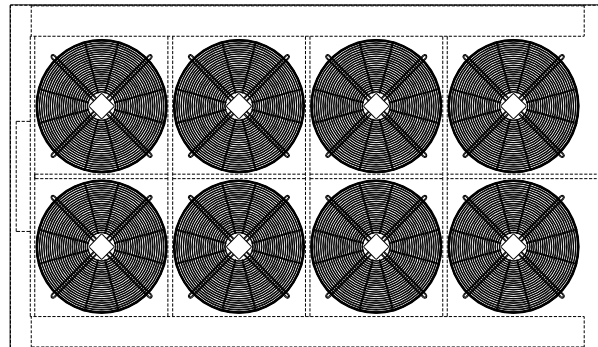
1. COIL : 3/8" (5+5)R 44S 3000EL
(INNER RIPPLED COPPER TUBE, GOLD COATING FIN)

11	GAS TUBE		SM-181181	2	1 5/8"
10	LIQUID VALVE		SM-8787	2	7/8"
9	DUAL PRESSURE SWITCH		KP-15R	2	DANFOSS
8	COMPRESSOR		SY 380	1	MANEUROP
7	COMPRESSOR		SY 300	1	MANEUROP
6	FAN COVER	MSWR-2	Ø 630	8	
5	FAN		Ø 630	8	
4	MOTOR		0.92KW 6P	8	
3	COIL ASS'Y			2	
2	CASE	E G I	1.2 t ~ 1.6 t	1	
1	BASE ASS'Y	P O	3.2 t	1	
NO.	DESCRIPTION	MATERIAL	SPECIFICATION	QTY	REMARK

MODEL: WOT3V-780 CWS



Unit Dimensions



N O T E

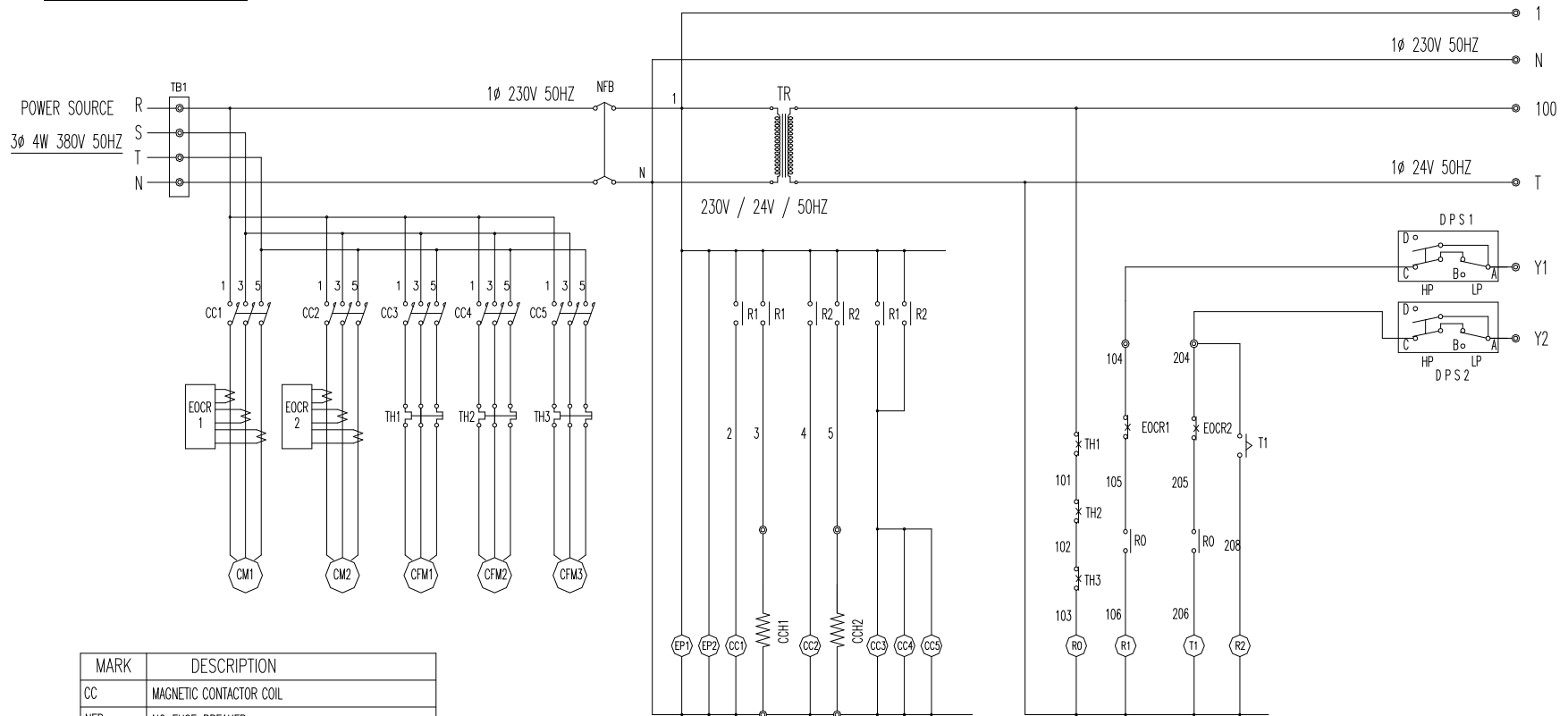
1. COIL : 3/8" (5+5)R 44S 3000EL
(INNER RIPPLED COPPER TUBE, GOLD COATING FIN)

10	GAS TUBE	SM-181181	2	1 5/8"	
9	LIQUID VALVE	SM-8787	2	7/8"	
8	DUAL PRESSURE SWITCH	KP-15R	2	DANFOSS	
7	COMPRESSOR	SY 380	2	MANEUROP	
6	FAN COVER	MSWR-2	8	ø 630	
5	FAN		8	ø 630	
4	MOTOR		8	0.92KW 6P	
3	COIL ASS'Y		2		
2	CASE	E G I	1	1.2 t ~ 1.6 t	
1	BASE ASS'Y	P O	1	3.2 t	
NO.	DESCRIPTION	MATERIAL	SPECIFICATION	Q'TY	REMARK

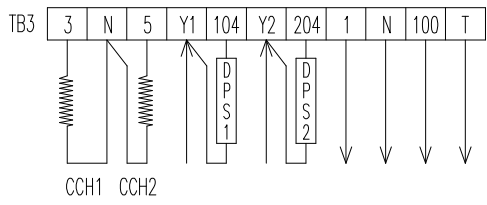
MODEL: WOT3V-870 CWS



Electric Circuit



MARK	DESCRIPTION
CC	MAGNETIC CONTACTOR COIL
NFB	NO FUSE BREAKER
TR	TRANSFORMER
CM	COMPRESSOR
TH	OVER CURRENT RELAY FOR CONDENSER FAN MOTOR
CFM	MOTOR FOR CONDENSER FAN
TB	TERMINAL BLOCK
EOCR	OVER CURRENT RELAY FOR COMPRESSOR MOTOR
CCH	CRANK CASE HEATER
INT	MOTOR PROTECTOR FOR COMP.
DPS	DUAL PRESSURE SWITCH
R	RELAY
T	TIMER
EP	EOCR POWER



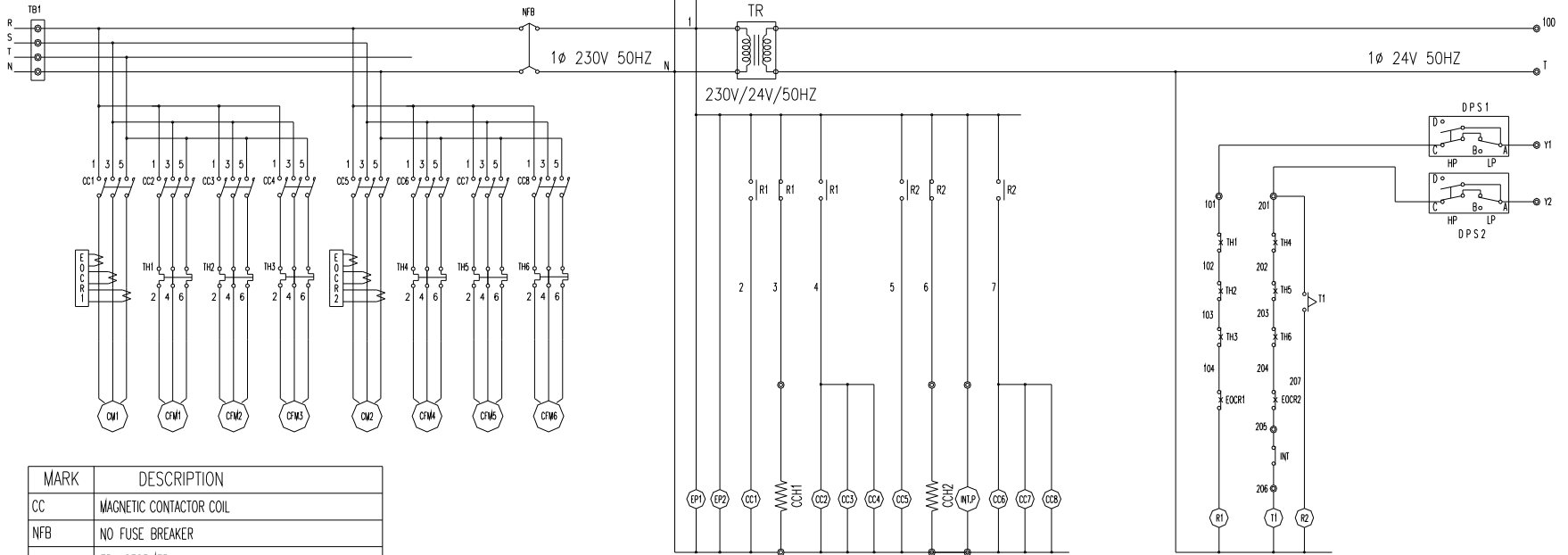
MODEL: WOT3V-330 / 360 / 390 CWS



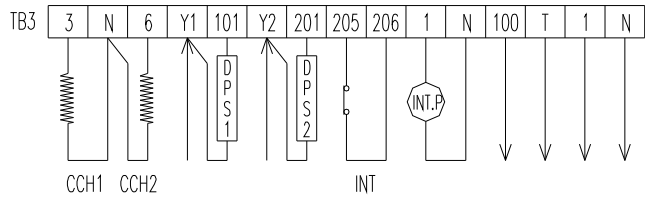
Electric Circuit

POWER SOURCE

3φ 4W 380V 50HZ



MARK	DESCRIPTION
CC	MAGNETIC CONTACTOR COIL
NFB	NO FUSE BREAKER
TR	TRANSFORMER
CM	COMPRESSOR
TH	OVER CURRENT RELAY FOR CONDENSER FAN MOTOR
CFM	MOTOR FOR CONDENSER FAN
TB	TERMINAL BLOCK
EOCR	OVER CURRENT RELAY FOR COMPRESSOR MOTOR
CCH	CRANK CASE HEATER
INT	MOTOR PROTECTOR FOR COMP.
INT.P	INT. POWER
R	RELAY
T	TIMER
EP	EOCR POWER
DPS	DUAL PRESSURE SWITCH

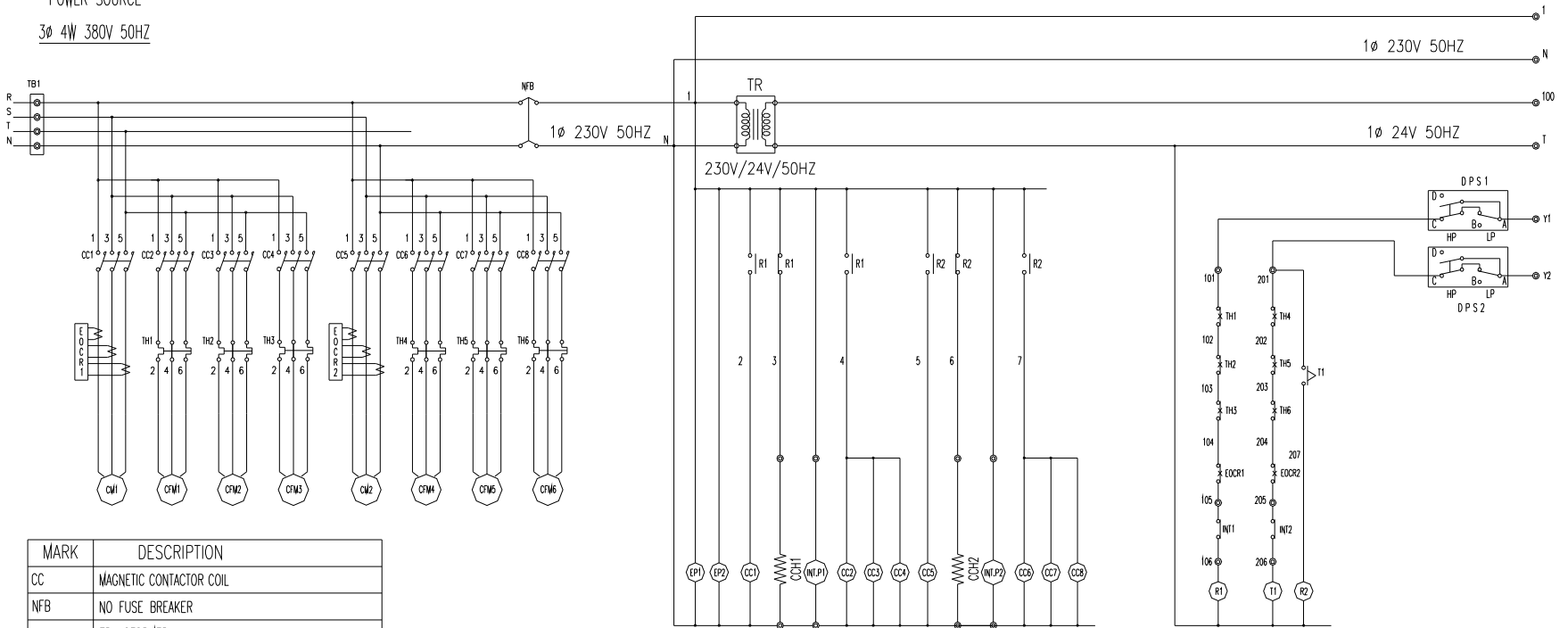


MODEL: WOT3V-450 CWS

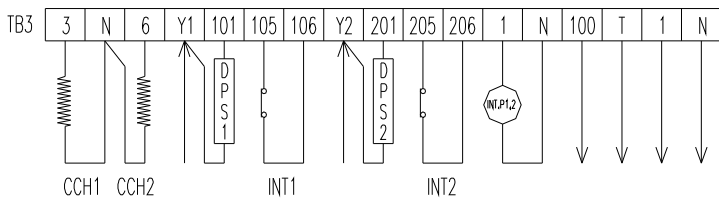


Electric Circuit

POWER SOURCE
3Ø 4W 380V 50HZ



MARK	DESCRIPTION
CC	MAGNETIC CONTACTOR COIL
NFB	NO FUSE BREAKER
TR	TRANSFORMER
CM	COMPRESSOR
TH	OVER CURRENT RELAY FOR CONDENSER FAN MOTOR
CFM	MOTOR FOR CONDENSER FAN
TB	TERMINAL BLOCK
EOCR	OVER CURRENT RELAY FOR COMPRESSOR MOTOR
CCH	CRANK CASE HEATER
INT	MOTOR PROTECTOR FOR COMP.
INT.P	INT POWER
R	RELAY
T	TIMER
EP	EOCR POWER
DPS	DUAL PRESSURE SWITCH



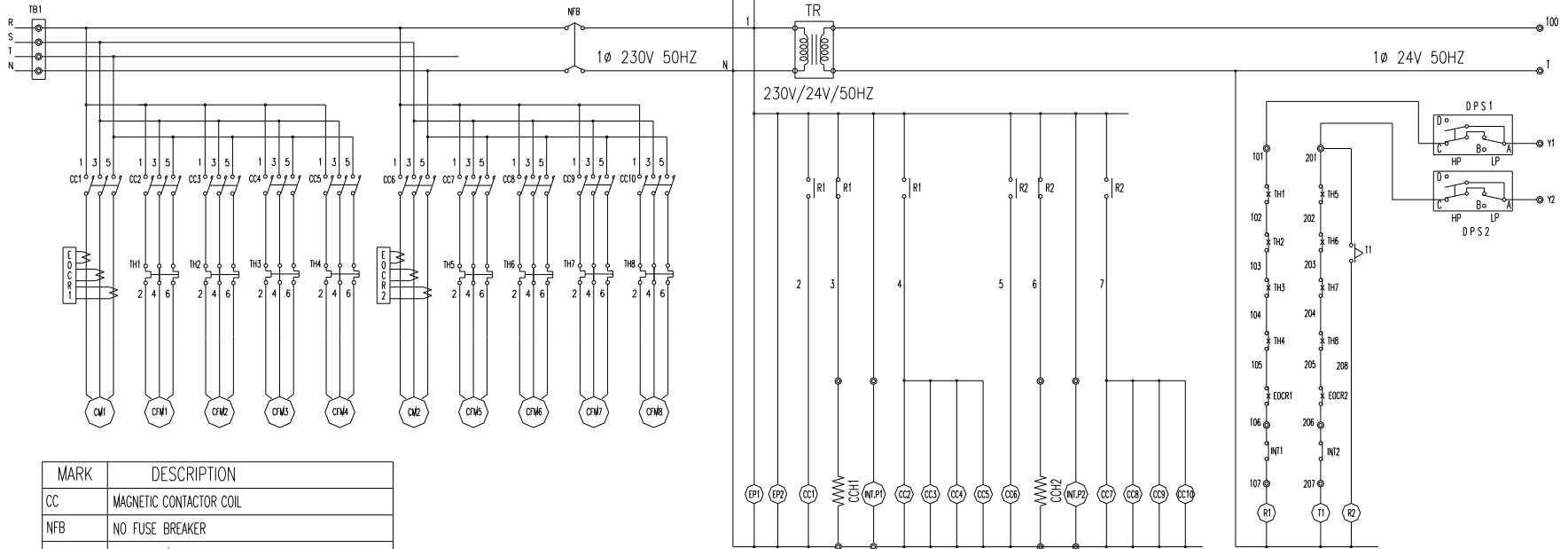
MODEL: WOT3V-510 / 570 / 630 CWS



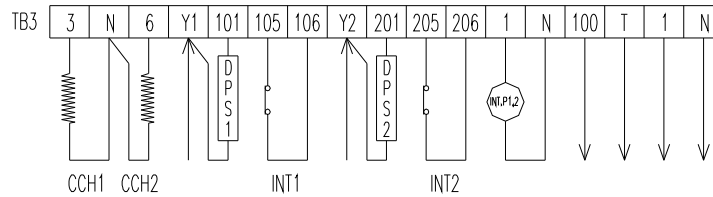
Electric Circuit

POWER SOURCE

3ø 4W 380V 50HZ



MARK	DESCRIPTION
CC	MAGNETIC CONTACTOR COIL
NFB	NO FUSE BREAKER
TR	TRANSFORMER
CM	COMPRESSOR
TH	OVER CURRENT RELAY FOR CONDENSER FAN MOTOR
CFM	MOTOR FOR CONDENSER FAN
TB	TERMINAL BLOCK
EOCR	OVER CURRENT RELAY FOR COMPRESSOR MOTOR
CCH	CRANK CASE HEATER
INT	MOTOR PROTECTOR FOR COMP.
INT.P	INT POWER
R	RELAY
T	TIMER
EP	EOCR POWER
DPS	DUAL PRESSURE SWITCH



MODEL: WOT3V-780 / 870 CWS



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