



**CARATTERISTICHE ELETTRICHE  
ELECTRIC CHARACTERISTIC**

SERIES	DHCU/DR 080...230.....pC01
MODELL	080-230 400V
ELECTRIC CHARACTERISTIC	

VERS.

"F"= SOLO FREDDO-ONLY COOLING  
 "F+C"= FREDDO/CALDO-ONLY COOLING/HEATING  
 "F+U"= FREDDO/UMIDITA'-COOLING/HUMIDITY  
 "F+C+U"= FREDDO/CALDO/UMIDITA'- COOLING/HEATING/HUMIDITY

A	REVISIONE NUMERAZIONE	20/07/2007	C.N.	DATE	11/09/2006								
B	CAMBIATA SIGLA AL MAGNET. Q5	10/11/2007	C.N.	DRAW.	POLIDO								
C	CONNESSIONE VALVOLE UMIDIFICATORE	21/11/2007	C.N.	CHECK	POLIDO								
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:			HF620C0561	SHEET 1 OF 24 CONTINUE 2	
	1	2		3		4		5		6		7	8



A

A

SIGN.	Descriptions	Note	
AP1	PRESSOSTATO DI ALTA HIGH PRESSURE P-STAT PRESSOSTAT HAUTE PRESSION DRUCKSCHALTER, HOCHDRUCK PRESOSTATO DE ALTA		
KA3	RELE' ALTA HI-PRESSURE RELAIS RELAIS HAUTE PRESSION RELAIS HOCHDRUCK RELE DE ALTA		
KM1	CONTATTORI COMPRESSORE COMPRESSOR CONTACTORS CONTACTEUR COMPRESSEUR SCHUTZ VENDICHTER CONTACTOR DEL VENTILADOR		
KM3	CONTTATORE UMIDIFICATORE HUMIDIFIER CONT. CONT. HUMIDIFICATEUR BEFEUCHTER VERSORGUNG CONT. HUMIDIFICADOR		
KM4	CONTATTATORE MOTOVENTILATORE FAN MOTOR CONECTOR CONTACTEUR VENTILATEUR VENTILATOR SCHUETZ CONTACTOR DEL MOTOVENTILADOR		
KM5 KM6	RISCALDAMENTO ELETTRICO EL. HEATERS CHAUFFAGE ELETTRIQUE ELETR. HAIZUNG RESISTENCIAS ELETRICAS		
C1 C2	COMPRESSORE COMPRESSOR COMPRESSEUR COMPRESSOR COMPRESOR		
TR	TRASFORMATORE TRANSFORMER TRANSFORMATEUR TRANSFORMATOR TRANSFORMADOR		
QS	INTERRUTTORE GENERALE MAIN SWITCH INTERRUPTEUR GENERAL HAUPTSCHALTER INTERRUPTOR GENERAL		
M1 M2 M3	MOTOVENTILATORE EVAPORANTE EVAP. FAN MOTOR MOTEUR VENTILATEUR DE EVAP. EVAP.-LUEFTER MOTOVENTILADOR EVAPORADORA		
CN1	COND. DI RIFASAMENTO POWER FACT. CORRECTION COND. CORRECT. COS. PHI KOND. KORR. COS. PHI COND. DE COMP. DE FASES		

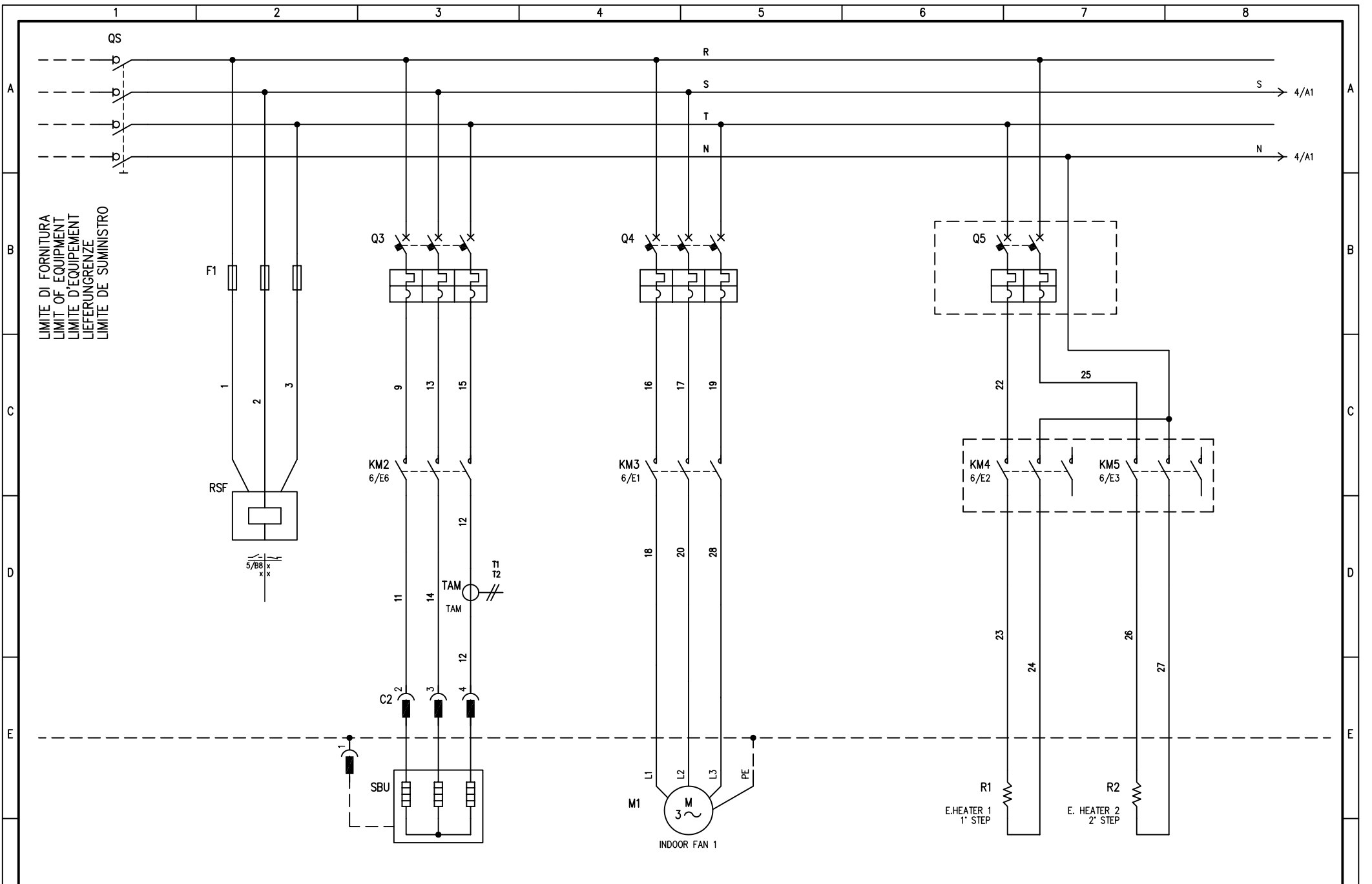
SIGN.	Descriptions	Note	
RSF	RELE' SEQUENZA FASE PHASE SEQUENCE CONTROL RELAY RELAIS DE CONTROLE DE PHASE D'ETAGE STEUERRELAIS FUER PHASENFOLGE RELE' CONTROL SECCUENCIA FASES		
SR1	SERRANDA DAMPER REGISTRE MOTORISIERTA COMPUERTA		
FS1	PRESSOSTATO FLUSSO ARIA AIR FLOW PRESSURE SWITCH PRESSOST. D'ENCRASSEMENT DE FILTRE DRUCKSCHALTER NIEDERDRUCK PRESOSTATO DE BAJA		
TP1 TP2	TERMOSTATO SICUREZZA RISCALDAMENTO HEATING SAFETY THERMOSTAT THERMOSTAT DE SECURITE' CHAUFFAGE THERMOSTATE ELEKTROHEIZUNG THERMOSTATO DE SEGURIDAD DE LAS RESISTENCIAS		
P1	PRESIONE CONDENSAZIONE CONDENSING PRESSION SENSOR SONDE DU PRESSION DE CONDENSATION KONDENSATIONSDRUCK-FUEHLER SONDA PRESION CONDENSACION		
SA	TEMPERATURA AMBIENTE INTERNO SHELTER INTERNAL AIR TEMPERATURE SENSOR SONDE TEMPERATURE D'AIR EINTERIOR AUSSERER LUFTTEMP.-FILTER SONDA DE TEMPERATURA DE LA DESCARGA DE AIRE		
SM	TEMPERATURA ARIA IN MANDATA DISCHARGE AIR TEMPERATURE SONDE DE TEMPERATURE ZULUFTTEMPERATUR TEMP. DE LA DISCARGA DE AIRE		
SE	TEMPERATURA ARIA ESTERNA OUTDOOR AIR SENSOR SONDE D'AIR EXTERNE AUSSENLUFTUEHLER SONDA DE AIRE EXTERNA		
BP1	PRESSOSTATO DI BASSA LOW PRESSURE P-STAT PRESSOSTAT BASSE PRESSION DRUCKSCHALTER NIEDERDRUCK PRESOSTATO DE BAJA		
K1	REGOLATORE DI VELOCITA' SPEED CONTROLLER REGULATEUR DE VITESSE VENTILATOR/DREHZAHLEGLER REGULADOR VELOCIDAD		
FS2	PRESSOSTATO FILTRI SPORCHI CLOGGED FILTER PRESSURE SWITCH PRESSOSTAT D'ENCRASSEMENT DE FILTRE DRUCKSCHALTER. FILTERVERSCHMUTZUNG PRESOSTATO FILTROS SUCIOS		
R1 R2	RISCALDAMENTO ELETTRICO EL. HEATERS CHAUFFAGE ELETTRIQUE ELETR. HAIZUNG RESISTENCIAS ELETRICAS		

SIGN.	Descriptions	Note	
Q1	INTERR. RSF SWITCH RSF INTERR. RSF AUTOMATISCHER RSF INTERR. RSF		
Q2	INTERR. COMPRESSORI SWITCH COMPRESSORS INTERR. COMP. AUTOMATISCHER KOMP. INTERR. COMP.		
Q4	INTERR. UMIDIFICATORE SWITCH HUMIDIFIER INTERR. HUMIDIFIC. AUTOMATISCHER BEFEUCHTER INTERR. HUMIDIF.		
Q5	INTERR. VENTILATORI SWITCH FANS INTERR. VENT. AUTOMATISCHER VENT. INTERR. VENT.		
Q6	INTERR. RISCALDAMENTO ELETTRICO SWITCH E. HEATERS INTERR. CHAUFFAGE ELET. AUTOMATISCHER ELETR.HAIZUNG INTERR. RES.		
Q7	INTERR. AUSILIARI SWITCH AUX INTERR. AUS. AUTOMATISCHER AUX INTERR. AUS.		
RC1	RESISTENZE CARTER CRANCKCASE HEATERS RESISTANCE DE CARTER KUBELWANNENHEIZUNG RESISTENCIAS DE CARTER		
Y1 Y2	SOLENOIDI LIQUIDO FREON SOLENOID VALVE ELECTROVANNE FREON MAGNETVENTIL-KAELEMITTEL ELECTROVALVULA FREON		
TP3 TP4 TP5	TERMICHE VENTILATORI THERMAL PROTECTIONS FANS TERMICHE VENTILATORI TERMICHE VENTILATORI TERMICHE VENTILATORI		
Y4	CARICO ACQUA UMID. HUMIDIFIER FEED VALVE ELECTROVANNE D'ALIM. DE HUMID. BEFEUCHTER VERSORGUNG VALVULA ALIM. HUMIDIF.		
Y5	SCARICO ACQUA UMID. HUMIDIFIER DRAIN VALVE ELECTR. DE DRAINAGE DE HUMID. BEFEUCHTER ENTFUEHLUNG VALVULA DESAGUE HUMID.		
SU	SONDA UMIDITA' HUMIDITY PROBE HYGRUMETRIE FUEHLER LUFTFEUCHTIGKEITSMESSUNG SONDE DE HUMEDAD		

F

F

DATE	11/09/2006								
DRAW.	POLIDO								
CHECK	POLIDO								
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561	SHEET 2 OF 24
1		2		3		4		5	CONTINUE 3



LIMITE DI FORNITURA  
 LIMIT OF EQUIPMENT  
 LIMITE D'EQUIPEMENT  
 LIEFERUNGRENZE  
 LIMITE DE SUMINISTRO

DATE 11/09/2006  
 DRAW. POLIDO  
 CHECK POLIDO  
 APPR. M.M.



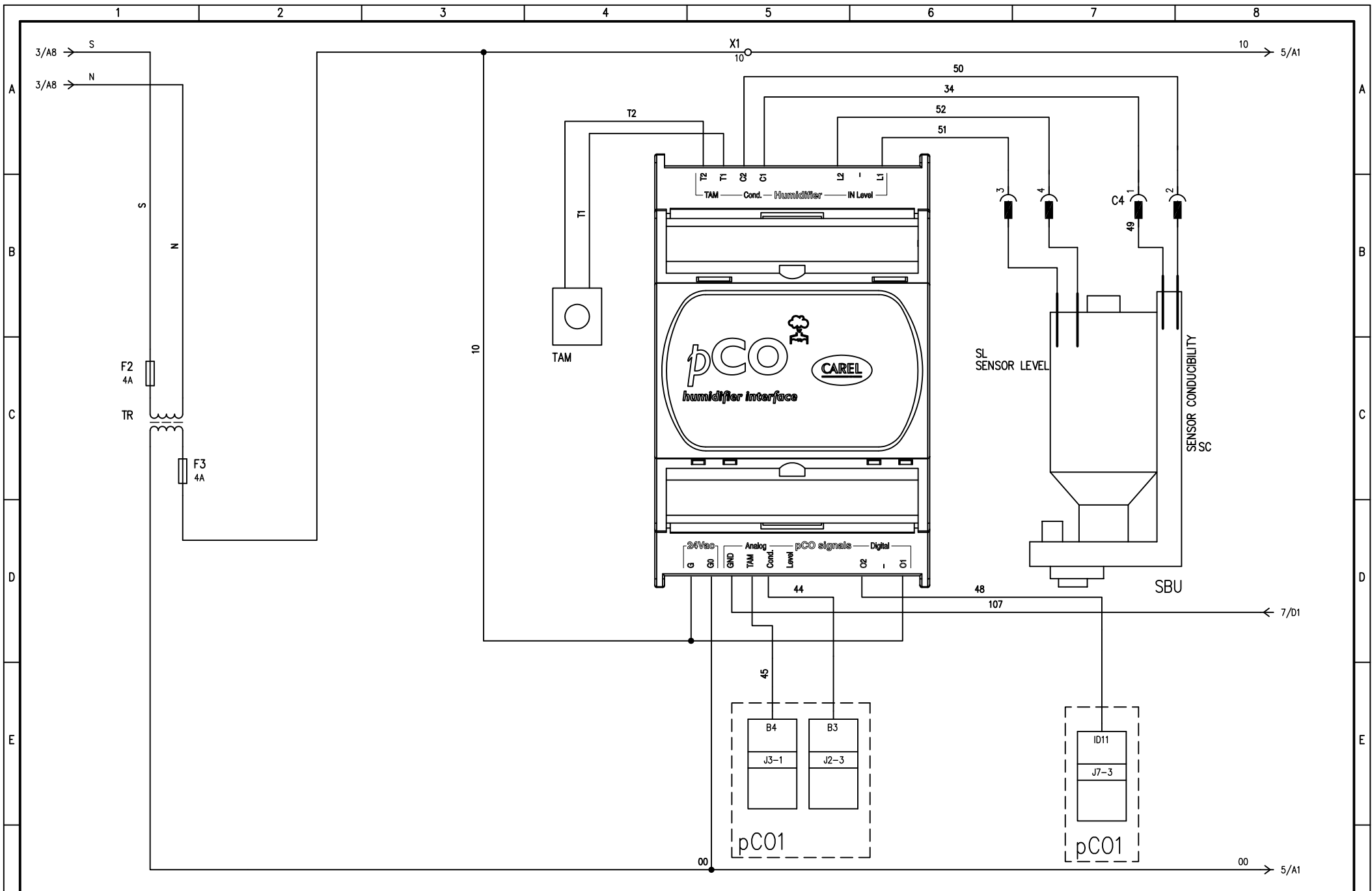
HF620C0561

SHEET 3 OF 24  
 CONTINUE 4

REV.	MODIFICATIONS	DATE	SIGN.
1		2	
2		3	
3		4	

REPLACE REPLACE

ORIGIN:



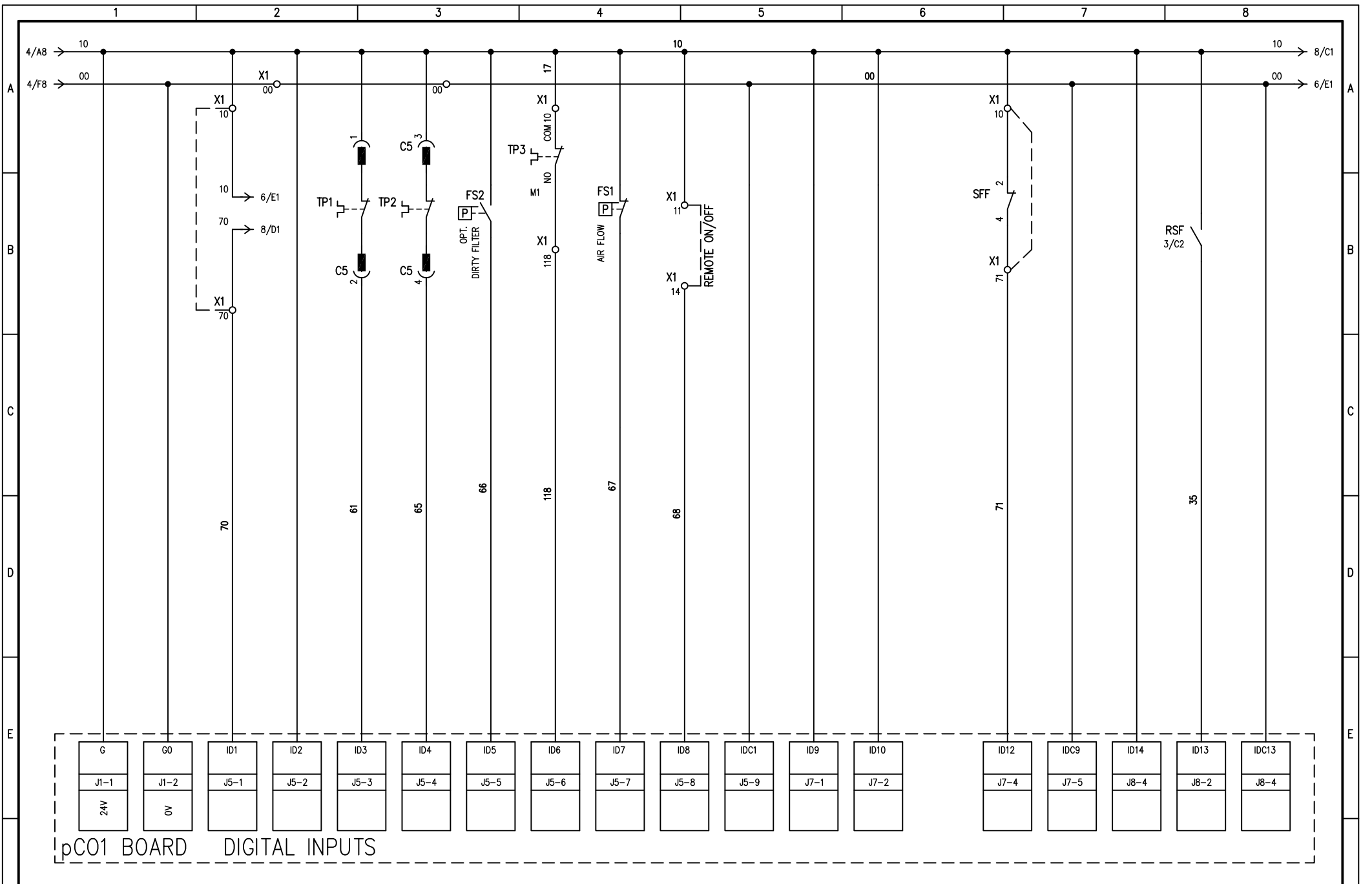
DATE 11/09/2006  
 DRAW. POLIDO  
 CHECK POLIDO



REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:

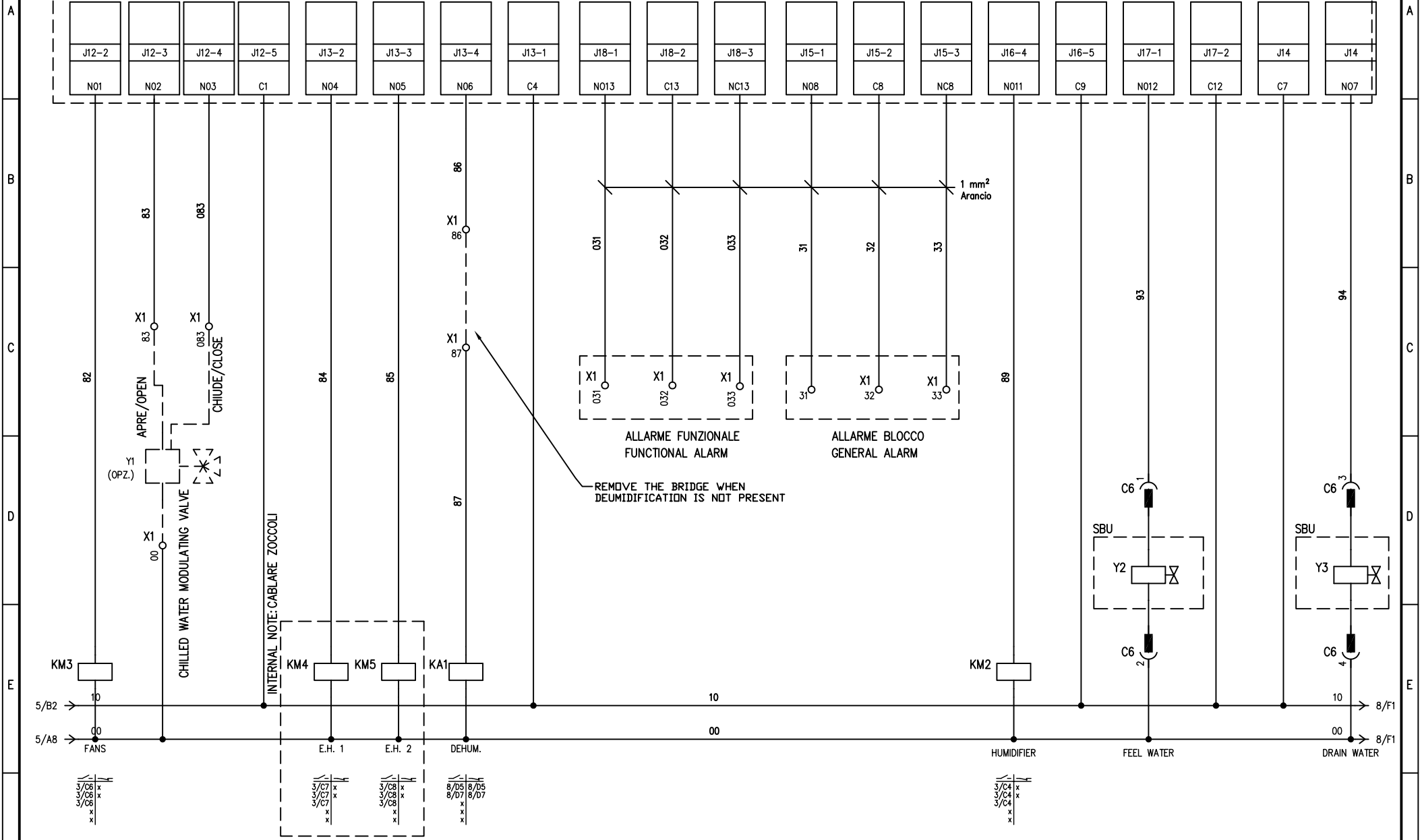
HF620C0561

SHEET 4 OF 24  
 CONTINUE 5



				DATE 11/09/2006			<b>LENNOX</b>							
				DRAW. POLIDO										
				CHECK POLIDO										
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561		SHEET 5 OF 24		CONTINUE 6		
1		2		3			5	6	7	8				

# pCO1 DIGITAL OUTPUTS



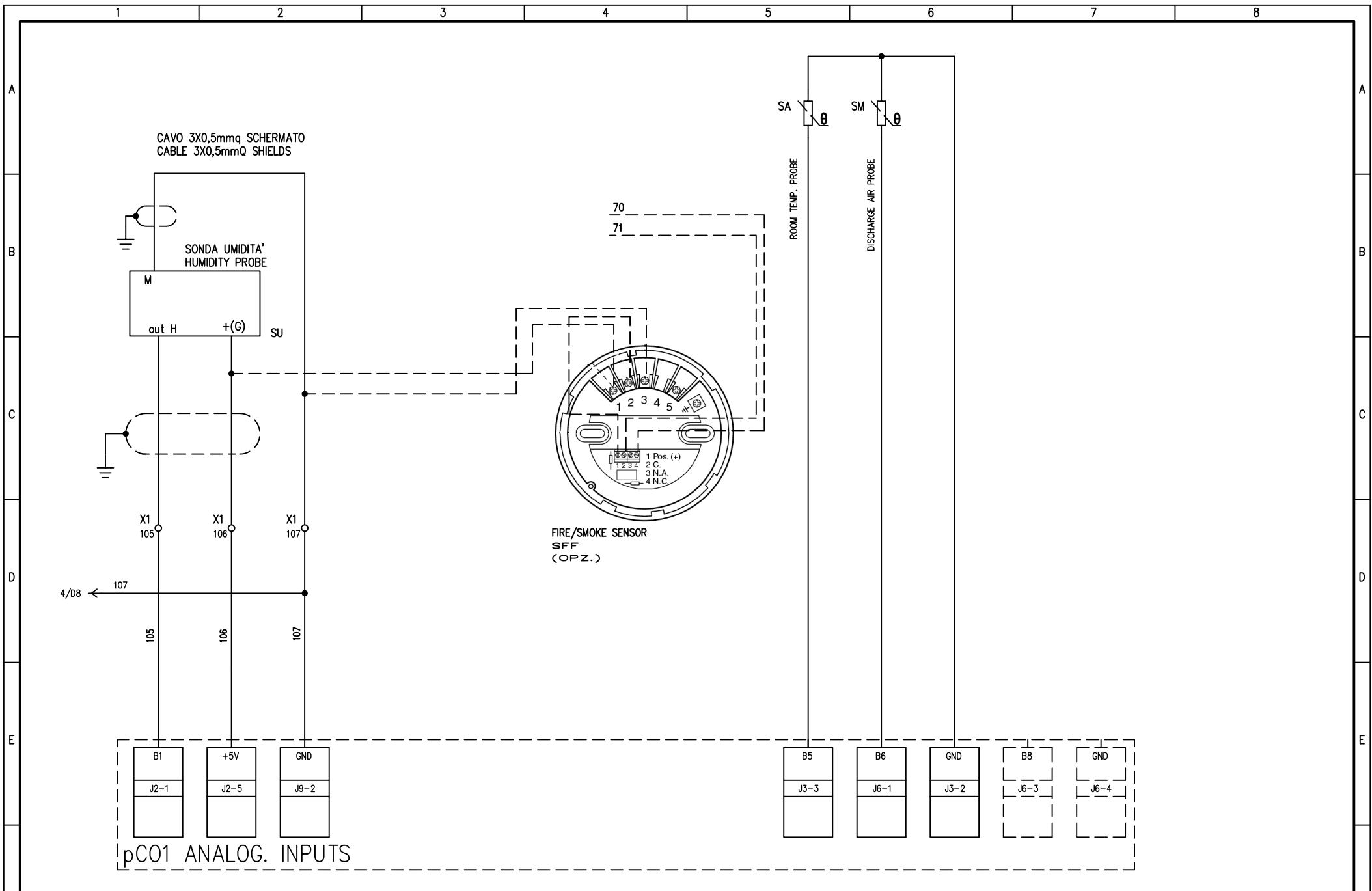
INTERNAL NOTE: CABLARE ZOCOLI

REMOVE THE BRIDGE WHEN DEUMIDIFICATION IS NOT PRESENT

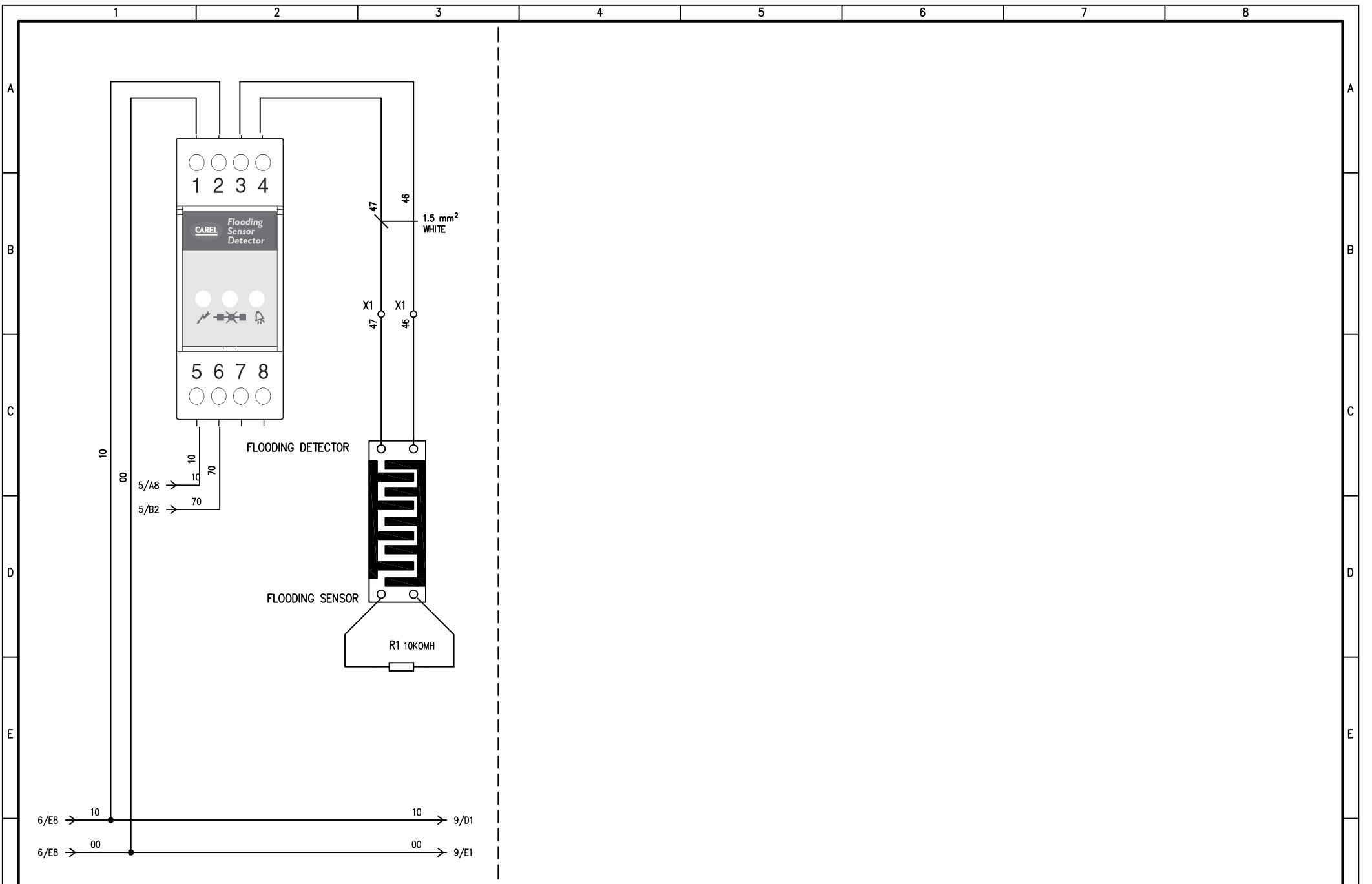


DATE 11/09/2006  
 DRAW. POLIDO  
 CHECK POLIDO

REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561	SHEET 6 OF 24
1		2		3					CONTINUE 7



				DATE 11/09/2006				<b>LENNOX</b>				
				DRAW. POLIDO								
				CHECK POLIDO								
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561		SHEET 7 OF 24		
1		2		3		4	5	6	7	CONTINUE 8		

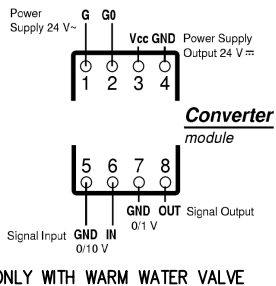
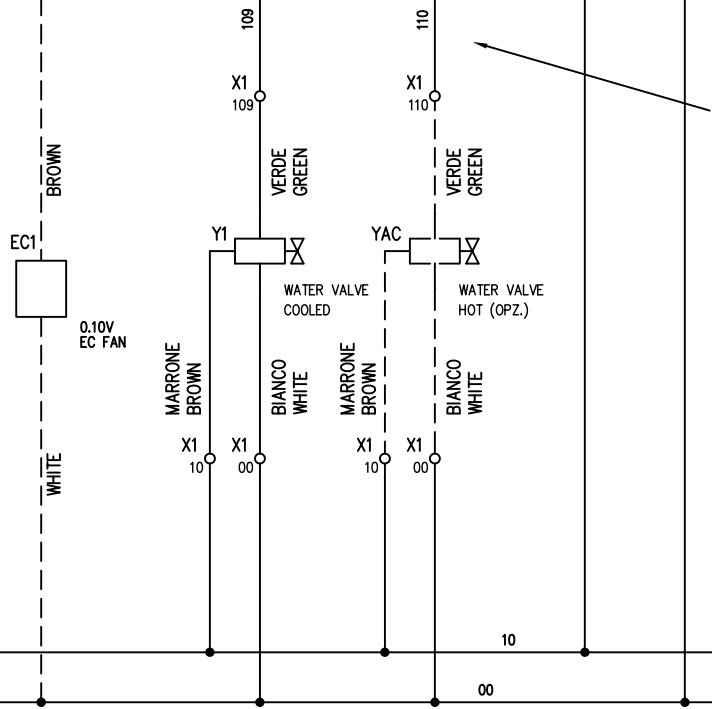
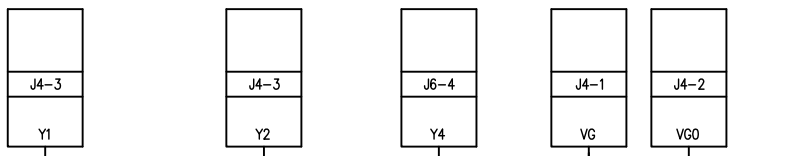


				DATE 11/09/2006										
				DRAW. POLIDO										
				CHECK POLIDO										
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:			HF620C0561	SHEET 8 OF 24			
1		2		3			5			7	CONTINUE 9			



CONTROLLO VALVOLE 0-10V  
VALVES CONTROL 0-10V

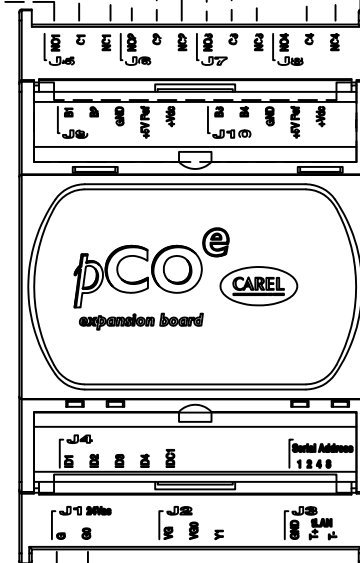
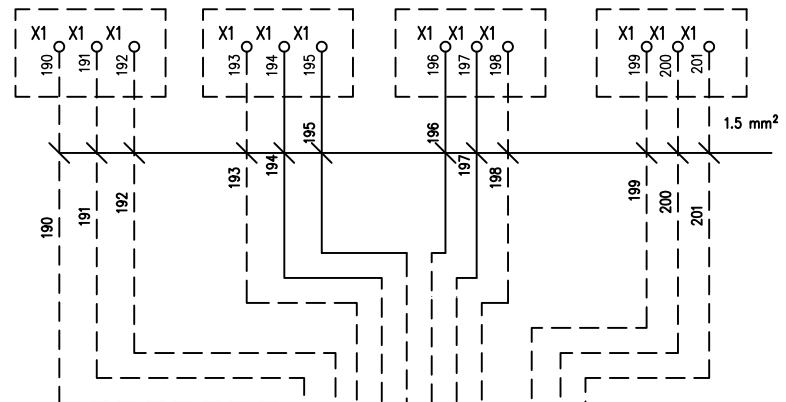
pCO1



VALVOLA MODULANTE ACQUA FREDDA (OPZ.)  
CHILLED WATER MODULATING VALVE (OPT.)  
VANNE DE REGULE L'EAU FRAISSE (OPT.)  
WASSERREGULIERENDE KLAPPE (OPT.)  
VALVULA DE 3 VAS AGUA REFRIGERADA (OPC.)

VALVOLA ACQUA CALDA (OPZ.)  
HOT WATER MODULATING VALVE (OPT.)  
VANNE DE REGULE L'EAU CHAUDE (OPT.)  
WEGEWARWASSERSTEUERUNG (ZUB.)  
VALVULA AGUA CALIENTE (OPC.)

AIR FLOW ALARM    LOW TEMP.    HIGH TEMP.    WATER FLOODING



pCOE BOARD

DATE 11/09/2006  
DRAW. POLIDO  
CHECK POLIDO



REV.    MODIFICATIONS

DATE    SIGN.

APPR. M.M.

REPLACE    REPLACE

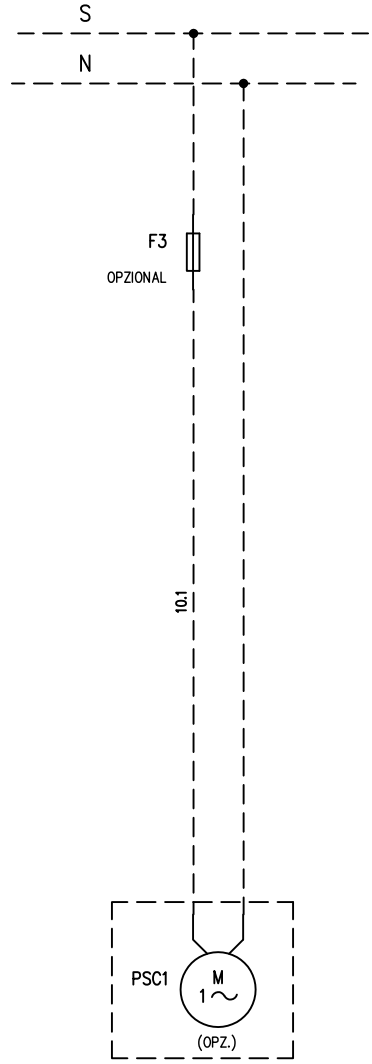
ORIGIN:

HF620C0561

SHEET 9 OF 24  
CONTINUE 10

CONDENSATE DRAIN PUMP  
 POMPE A EAU CONDENSEUY  
 KONDENSATWASS PUMPE  
 BOMBA DESEGUE CONDEN.

SEGNALAZIONE DELLO STATO DELL'UNITA' (OPZ.)  
 UNIT STATUS SIGNAL (OPT.)  
 ETAT DES SIGNAUX DE L'UNITE' (OPT.)  
 STATUSMELDEKONTAKT (ZUB.)  
 SENALIZACION DEL ESTADO DE LA UNIDAD (OPC.)

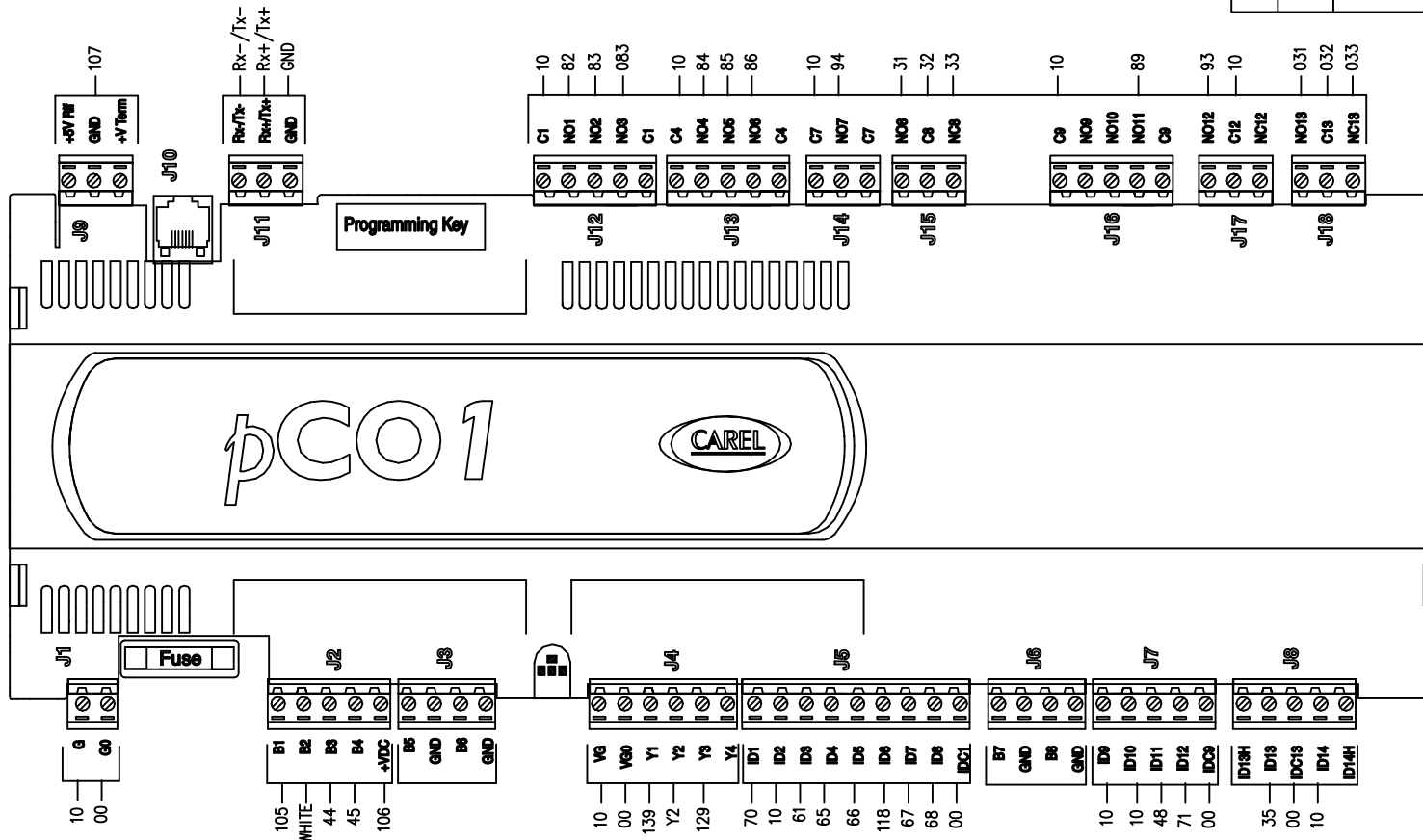


				DATE 11/09/2006			<b>LENNOX</b>				
				DRAW. POLIDO							
				CHECK POLIDO							
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561	SHEET 10 OF 24		CONTINUE 11
1		2		3		4	5	6	7	8	

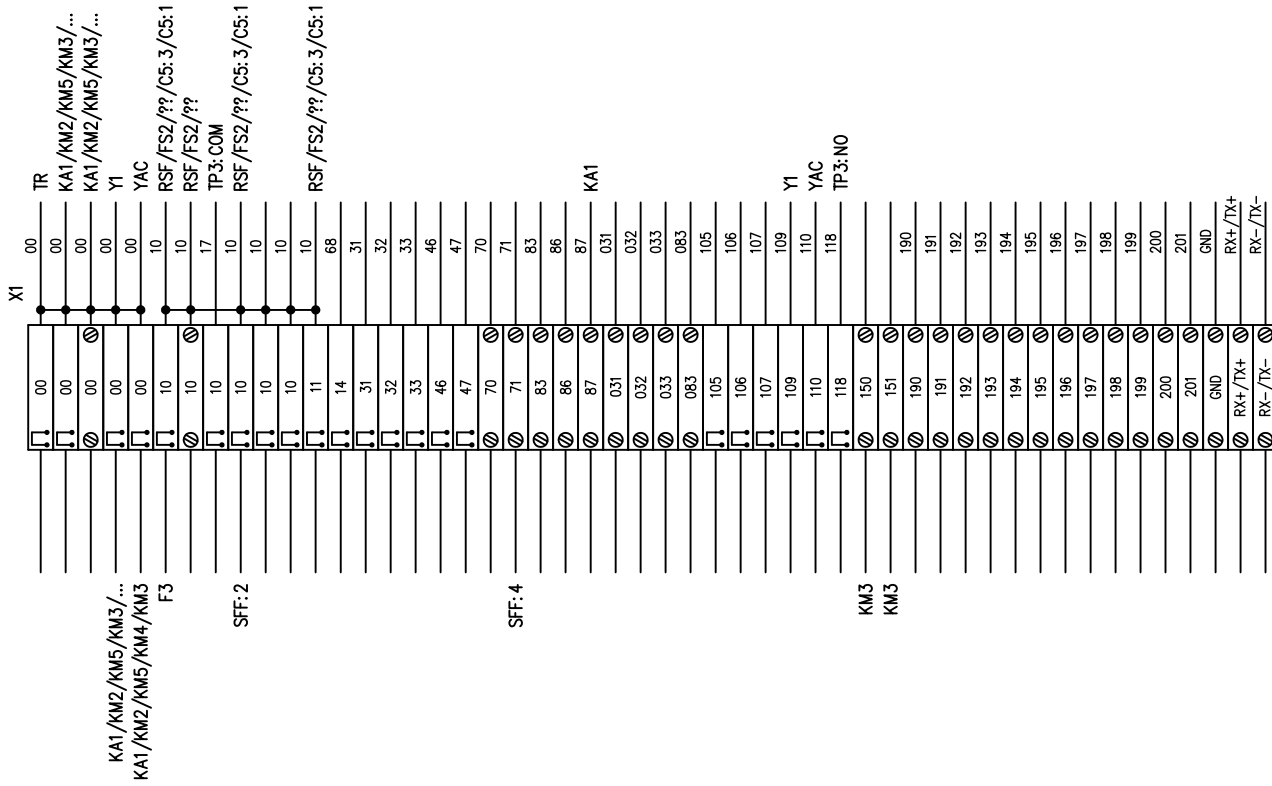
# LAYOUT SCHEDA ELECTRONIC BOARD LAYOUT

CONNETTORI PHOENIX A SPINA COMBICON CON PASSO 5.08 mm. COLORE VERDE TIPO MSTB 2,5 :

SIG.	POLI	TIPO	CODICE	SIG.	POLI	TIPO	CODICE
J1	2	2,5/2-ST	17 57 01 9	J11	3	2,5/3-ST	17 57 02 2
J2	5	2,5/5-ST	17 57 04 8	J12	5	2,5/5-ST	17 57 04 8
J3	4	2,5/4-ST	17 57 03 5	J13	5	2,5/5-ST	17 57 04 <sup>T8</sup> 8
J4	6	2,5/6-ST	17 57 05 1	J14	3	2,5/3-ST	17 57 02 2
J5	9	2,5/9-ST	17 57 08 0	J15	3	2,5/3-ST	17 57 02 2
J6	4	2,5/4-ST	17 57 03 5	J16	5	2,5/5-ST	17 57 04 8
J7	5	2,5/5-ST	17 57 04 8	J17	3	2,5/3-ST	17 57 02 2
J8	5	2,5/5-ST	17 57 04 8	J18	3	2,5/3-ST	17 57 02 2
J9	3	2,5/3-ST	17 57 02 2				PCDUMD



TERMINAL STRIP  
BORNIER  
KLEMMLEISTE  
KLEMMLEISTE



CONNETTORI

C2

Pin	Filo	Posizione
1		3/E4
2	11	3/E4
3	14	3/E4
4	12	3/E4

C4

Pin	Filo	Posizione
1	49	4/C4
2	50	4/C5
3	51	4/C5
4	52	4/C5

C5

Pin	Filo	Posizione
1	10	5/A3
2	61	5/B3
3	10	5/A3
4	65	5/B3

C6

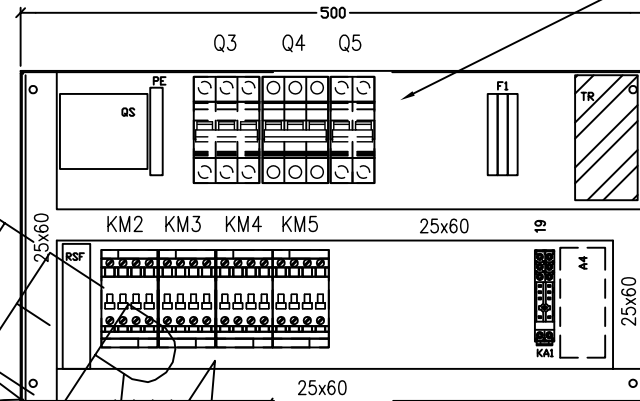
Pin	Filo	Posizione
1	93	6/D7
2	00	6/E7
3	94	6/D8
4	00	6/E8

LAYOUT MOD.080/110

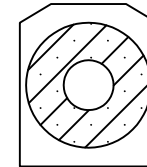
PIASTRA DI FONDO NS. COD. HF17000909

F1=USARE MORSETTI PORTAFUBILI PHOENIX UK5-HESI INTERBLOCATI

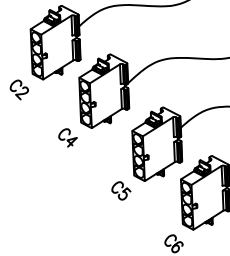
ALAZARE CON CAVALLOTTO



GUAINA SPIRALATA L=1500mm FORCINE



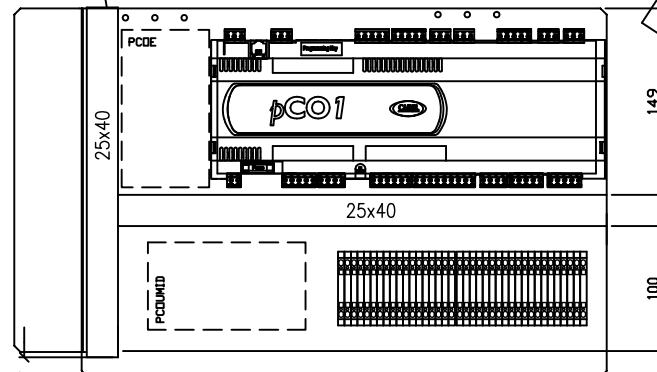
A CURA DEL QUADRISTA: FORNIRE IL TOROIDE SU SUPPORTO DI VS. FORNITURA



AL  
US  
S  
ONLY

FORNIRE PRECABLATA FILI L=150mm

GUAINA SPIRALATA L=150mm



MORSETTI PHOENIX COD.ST1,5-TWIN 3031128  
FISSARE SU GUIDA OMEGA CON FORI FATTI

DATE	11/09/2006
DRAW.	POLIDO
CHECK	POLIDO
APPR.	M.M.
REPLACE	REPLACE



HF620C0561

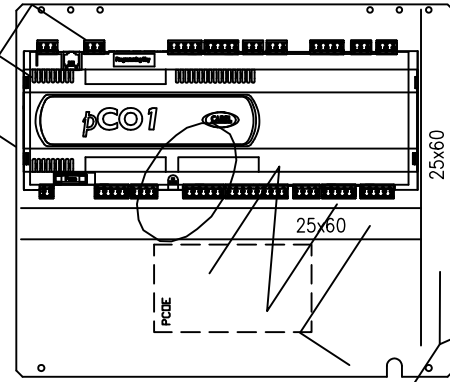
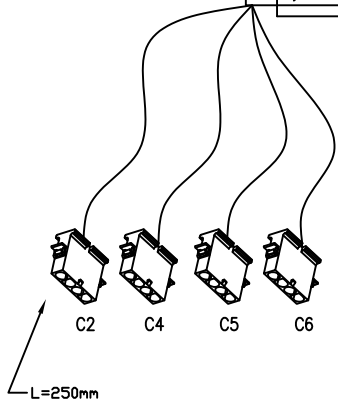
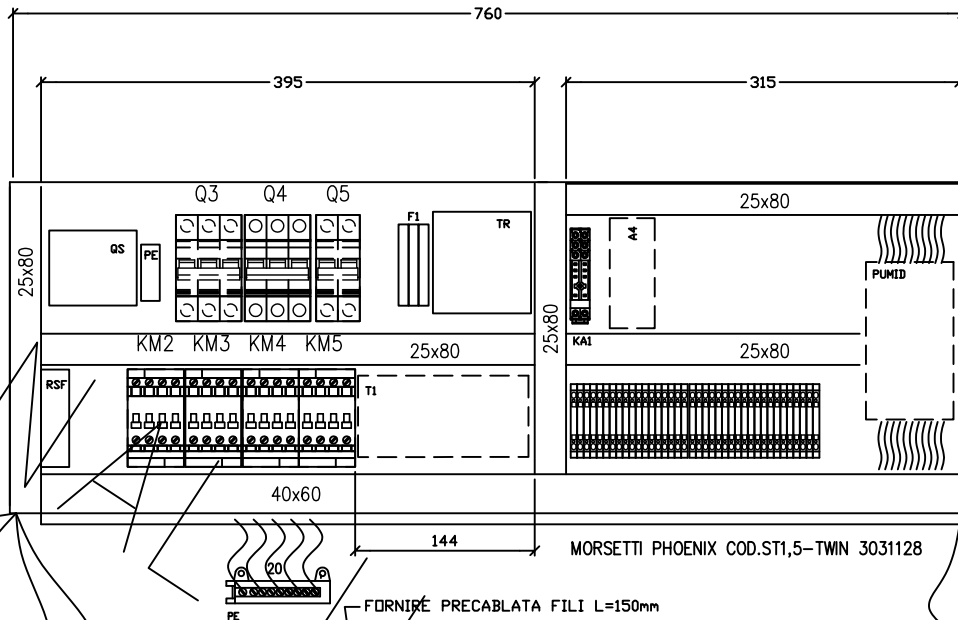
SHEET 13 OF 24  
CONTINUE 14

REV.	MODIFICATIONS	DATE	SIGN.
1		2	

LAYOUT 140...230

PIASTRA DI FONDO NS. COD. HF17000756

F1=USARE MORSETTI PORTAFUBBI PHOENIX  
UK5-HESI  
INTERBLOCATI



GUAINA SPIRALATA L=150mm

DATE 11/09/2006  
DRAW. POLIDO  
CHECK POLIDO  
APPR. M.M.



REV.	MODIFICATIONS	DATE	SIGN.
1		2	

APPR.	M.M.	REPLACE	REPLACE

ORIGIN:

HF620C0561

SHEET 14 OF 24  
CONTINUE 15

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A

A

B

B

C

C

D

D

E

E

F

F

DATE 11/09/2006

DRAW. POLIDO

CHECK POLIDO



APPR. M.M.

REPLACE

REPLACE

ORIGIN:

HF620C0561

SHEET 15 OF 24

CONTINUE 16

REV.	MODIFICATIONS	DATE	SIGN.

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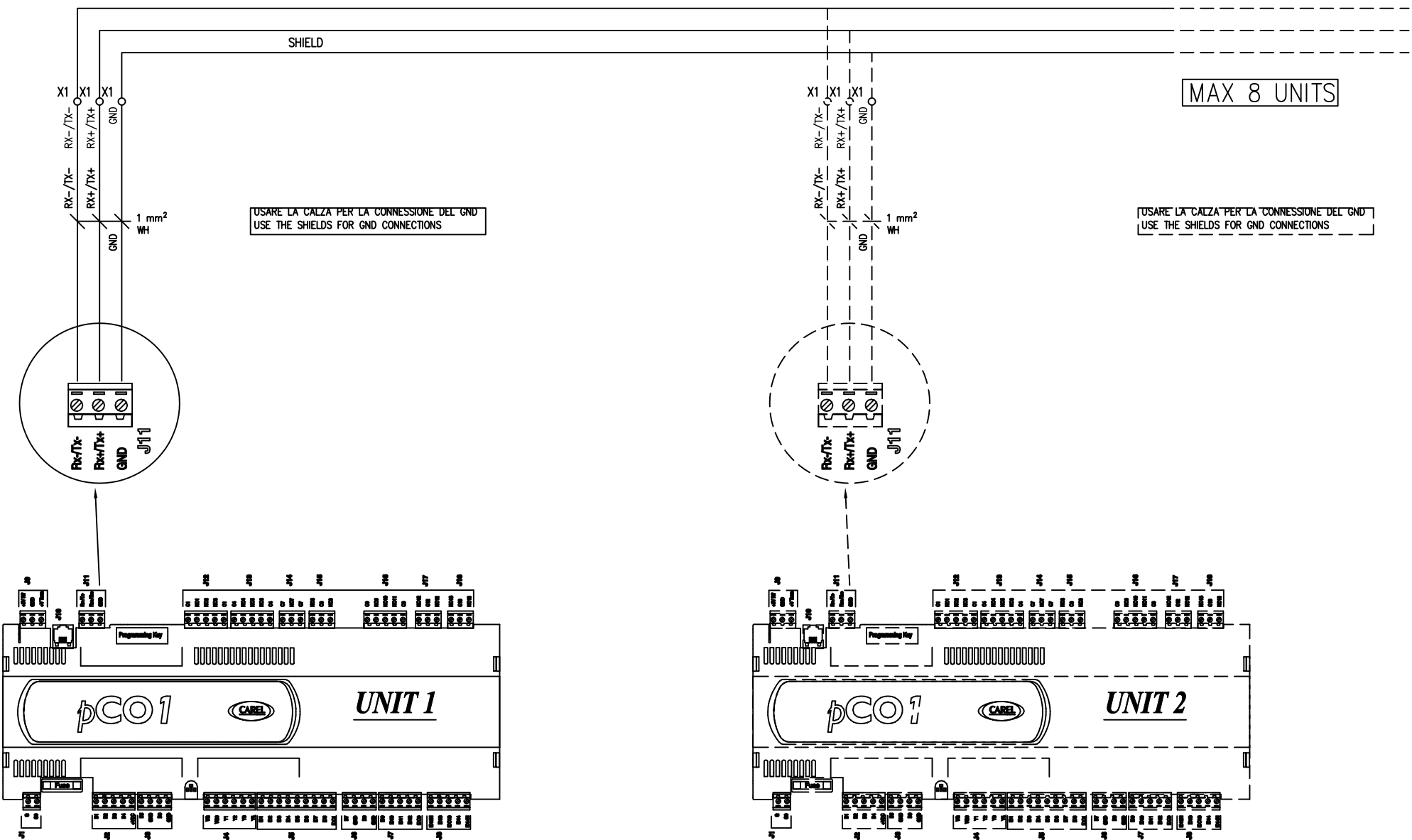
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8

# LAN CONNECTIONS

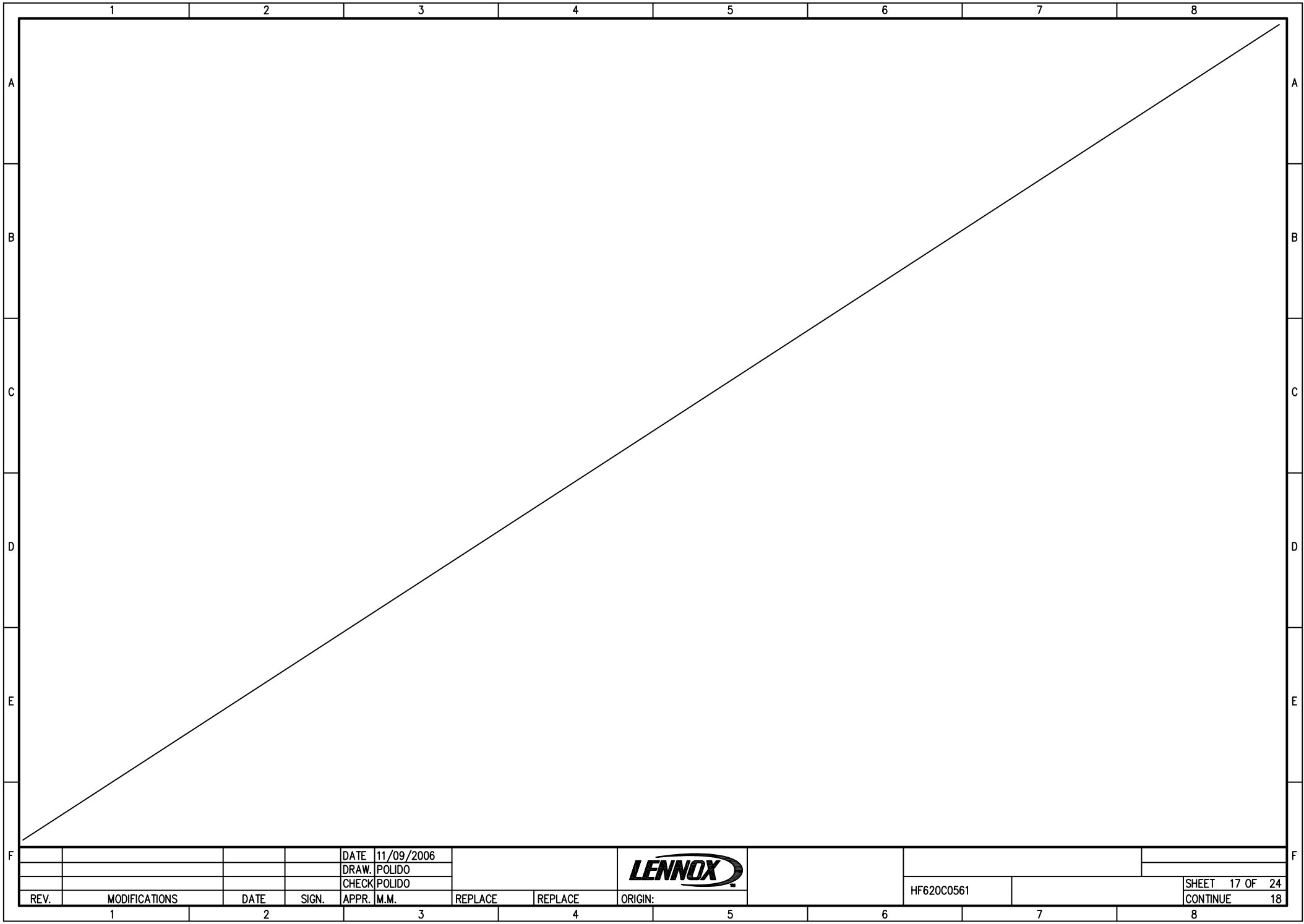
A  
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D  
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F

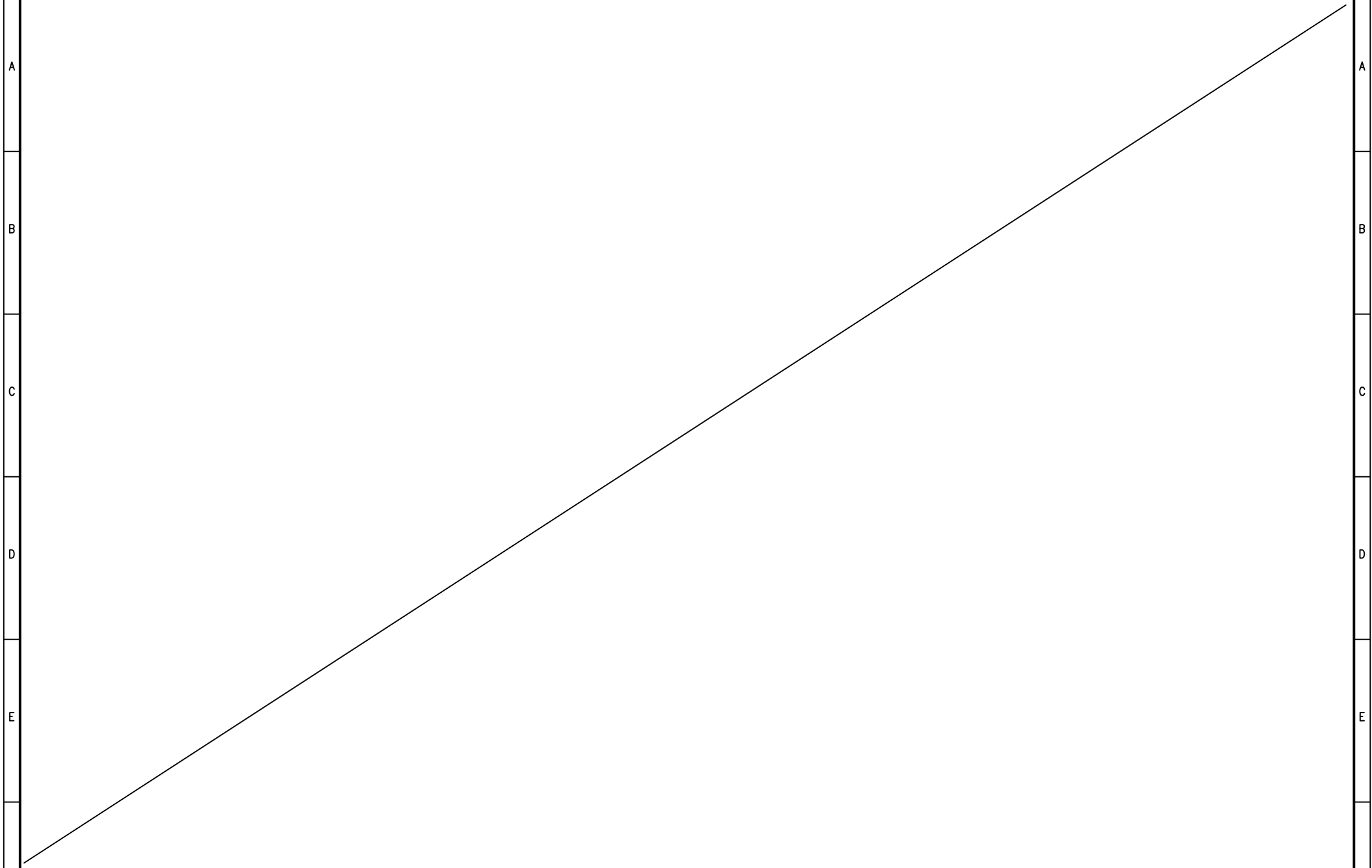


REV.	MODIFICATIONS	DATE	SIGN.	DATE 11/09/2006				HF620C0561	SHEET 16 OF 24		
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			APPR. M.M.	REPLACE	REPLACE	ORIGIN:					



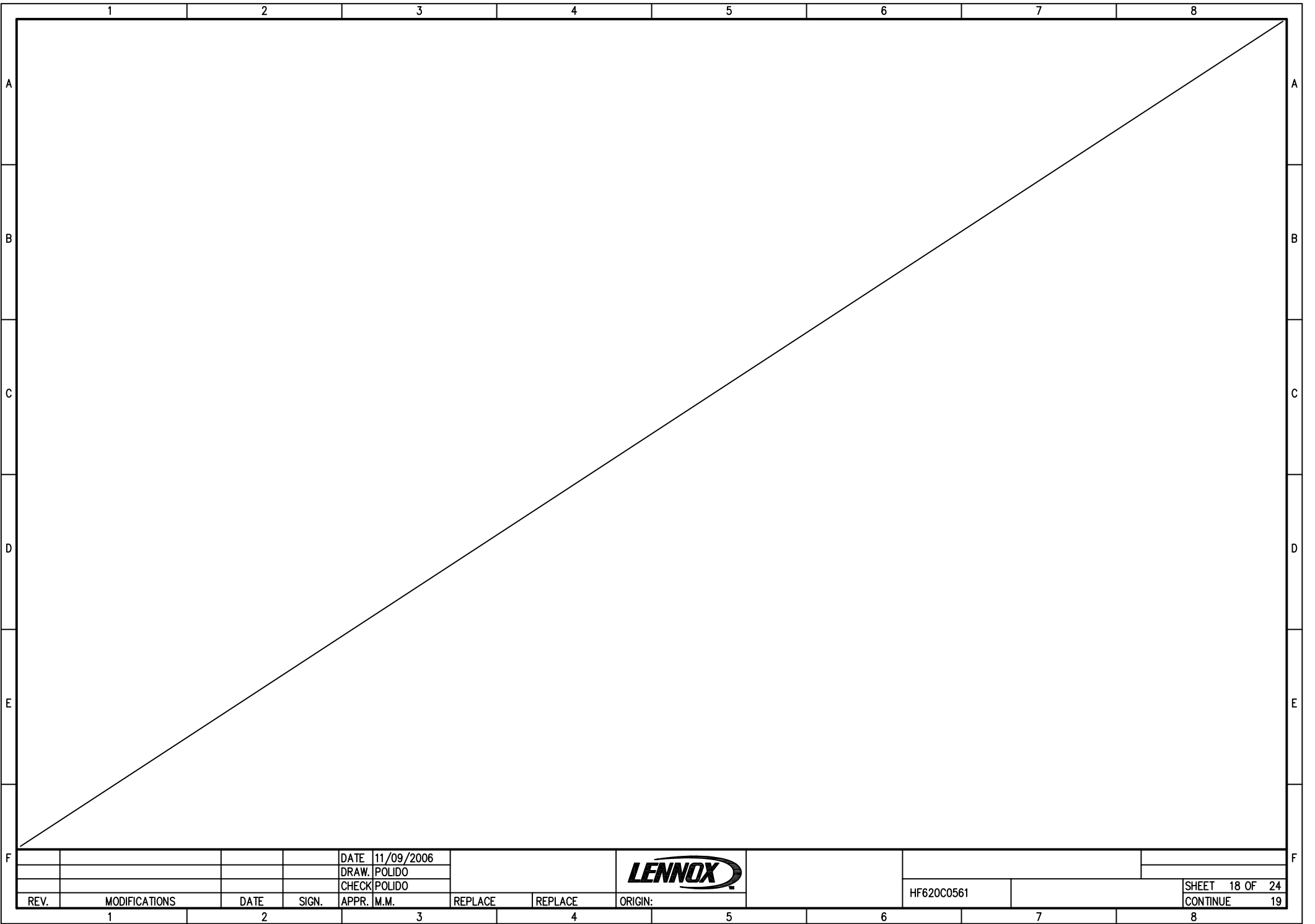


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REV.		MODIFICATIONS		DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561		SHEET 17 OF 24		
													CONTINUE 18		
1	2	3	4	5	6	7	8								







				DATE 11/09/2006									
				DRAW. POLIDO									
				CHECK POLIDO									
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:		HF620C0561			SHEET 18 OF 24	19
1		2		3		4		5		6		7	8

1	2		3	4	5	6	7	8	
080-110	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position	
	AP	HIGH PRESSURE				1		4/C02	
	BP	LOW PRESSURE				1		5/A06	
	C1	COMPRESSOR				1		3/E02	
	EV1					1		7/B05	
	EV2					1		7/B05	
	F1		4AF		FUSIBILE 5X20	1	PCE	3/D08	
	H1	HUMIDIFYER				1		3/E06	
	KM2	HUMID.		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10	1	PCE	4/E06	
	KM3	EVAP. FANS		LS410-55/72614	TEL. AEG LS4.10 24V/DIL00M-10	1	PCE	4/E07	
	KM4	E.H. 1 STEP		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10	1	PCE	6/B03	
	KM5	E.H. 2 STEP		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10	1	PCE	6/B03	
				DATE 11/09/2006					
				DRAW. POLIDO					
				CHECK POLIDO					
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561	SHEET 19 OF 24 CONTINUE 20
1	2	3	4	5	6	7	8		

1	2		3		4		5		6		7		8		
080-110	Ref-mark	Function		Technical data		Item code		Description			Amount	M.U.	Position		
	M1	EVAP. FANS									1		3/E05		
	Q3	HUMID.				E93C06/242943		INT.AUT.Elfa E90 3P C 6A 6kA/PLS6-C6/3			1	PCE	3/B05		
	Q4	FANS				E93C06/242943		INT.AUT.Elfa E90 3P C 6A 6kA/PLS6-C6/3			1	PCE	3/B06		
	Q5	E.HEATERS				E92C10/242876		INT.AUT.Elfa E90 2P C 20A 6kA/PLS6-C10/2			1	PCE	3/B07		
	QS			4X25		OT25E4					1		3/A01		
	R1	E. HEATERS									1		3/E04		
	RSF	PHASE SEQUENCE									1		3/C02		
	SA	ROOM PROBE									1		6/B05		
	TR			100VA				CON FUS. A BORDO			1		3/C07		
				DATE 11/09/2006											
				DRAW. POLIDO											
				CHECK POLIDO											
REV.	MODIFICATIONS		DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561				SHEET 20 OF 24 CONTINUE 21		
1			2		3		4		5			6	7	8	

1	2		3	4	5	6	7	8	
140...230	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position	
	AP	HIGH PRESSURE				1		4/C02	
	BP	LOW PRESSURE				1		5/A06	
	C1	COMPRESSOR				1		3/E02	
	EV1					1		7/B05	
	EV2					1		7/B05	
	F1		4AF		FUSIBILE 5X20	1	PCE	3/D08	
	H1	HUMID.				1		3/E06	
	KA1	DEHUMID		40528024		1		4/E02	
	KM2	HUMID.		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	4/E06	
	KM3	EVAP. FANS		LS410-55/72614	TEL. AEG LS4.10 24V/DIL00M-10 24V	1	PCE	4/E07	
	KM4	E.H. 1 STEP		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	6/B03	
	KM5	E.H. 2 STEP		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	6/B03	
				DATE 11/09/2006					
				DRAW. POLIDO					
				CHECK POLIDO					
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561	SHEET 21 OF 24 CONTINUE 22
1	2	3	4	5	6	7	8		

1	2	3	4	5	6	7	8	
140...230	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position
	M1/M2	EVAP. FANS				1		3/E05
	Q3	HUMID.		E93C06/242943	INT.AUT.Elfa E90 3P C 06A 6kA/PLS6-C06/3	1	PCE	3/B05
	Q4	FANS		E93C06/242943	INT.AUT.Elfa E90 3P C 6A 6kA/PLS6-C6/3	1	PCE	3/B06
	Q5	E. HEATERS		E92C20/242881	INT.AUT.Elfa E90 2P C 20A 6kA/PLS6-C20/2	1	PCE	3/B07
	QS		4X45	OT45E4		1		3/A01
	R1	E. HEATERS				1		3/E04
	RSF	PHASE SEQUENCE				1		3/C02
	SA	ROOM PROBE				1		6/B05
	TR		100VA		CON FUS. A BORDO	1		3/C07
				DATE 11/09/2006				
				DRAW. POLIDO				
				CHECK POLIDO				
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561
1		2		3		4		5
						6	7	8
							SHEET 22 OF 24	
							CONTINUE 23	