



Schema elettrico – Wiring diagram

WDSF02401R05

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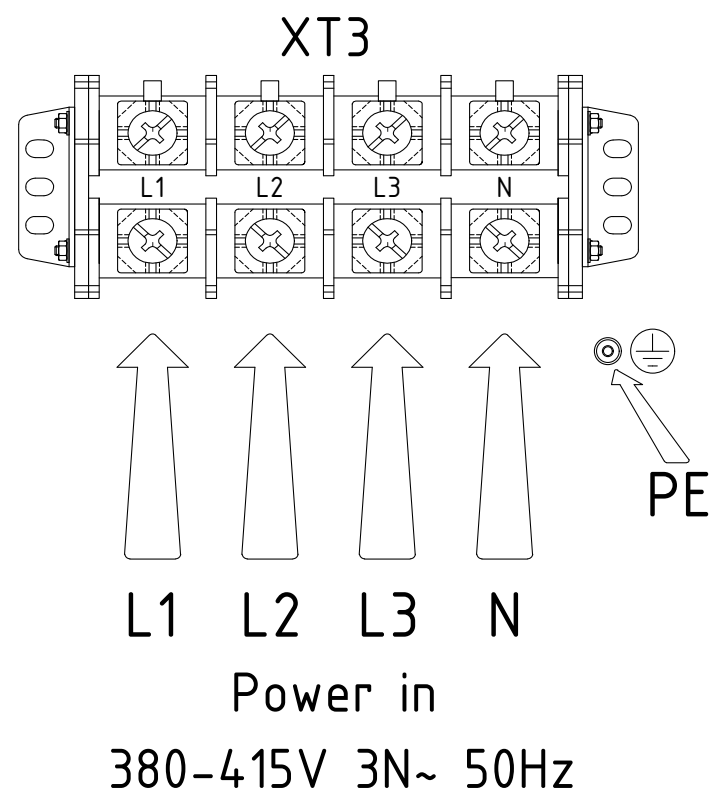
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	Simbologie di riferimento		Descrizione/Description: WSAT-YES				
	Symbols reference						
	EN 617-2						
	CLIVET® Via Camp Lonc, 25 Villapaiera 32032 Feltre (BL) Italy Web : www.clivet.it – E-mail : info@clivet.it Tel. +39 0439 3131 / Fax. +39 0439 313300		Grandezza/Size 18.2 - 20.2 - 25.2 - 30.2 - 35.2	Tensione/Supply 380-415V 3N~ 50Hz			
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		Data: 07/07/2020					pp.: 14

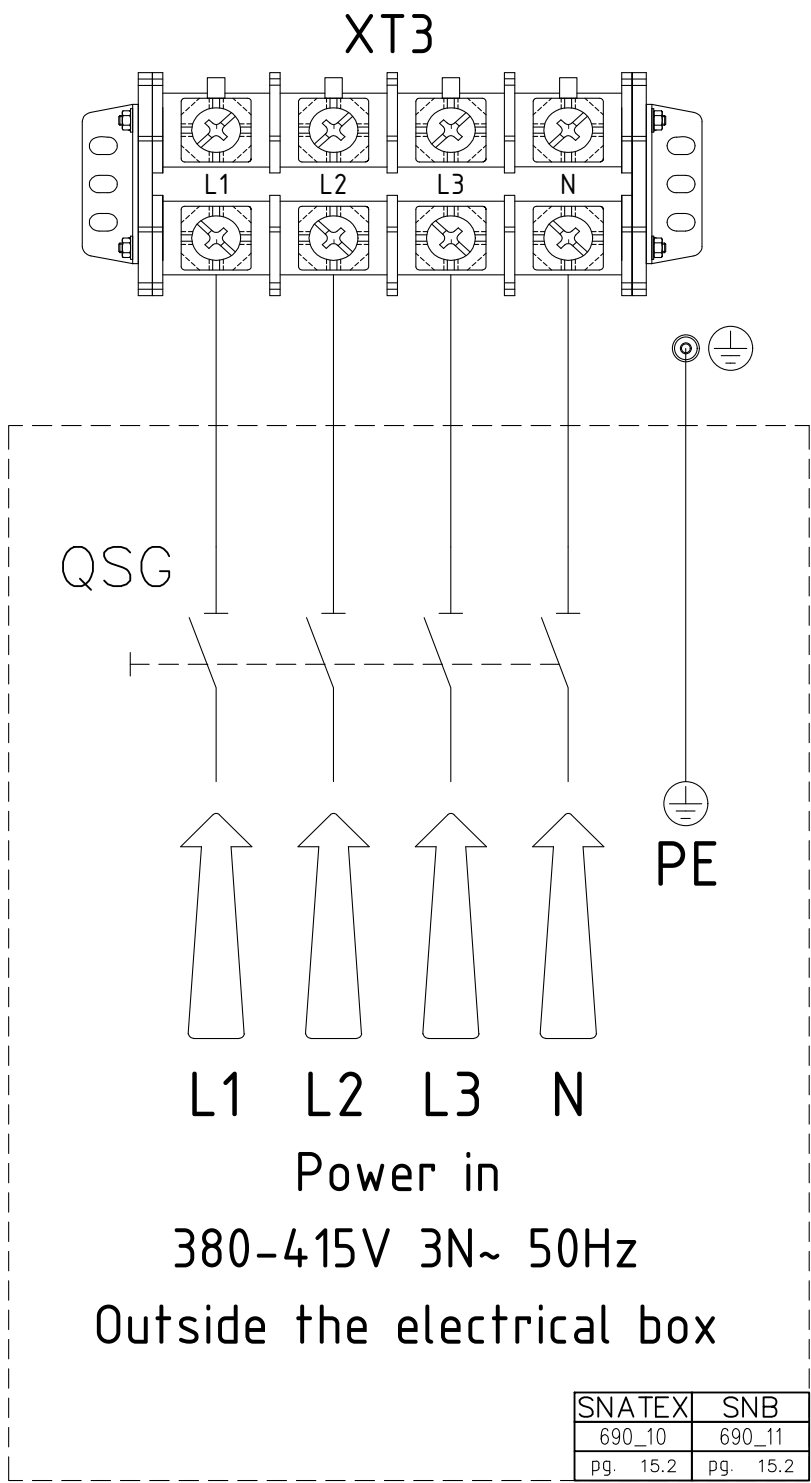
Collegamenti a cura del cliente
Connections performed by customer
Raccordements à la charge du client
Kundenseitige Anschlüsse
Conexiones a cargo del cliente

Power supply of the unit

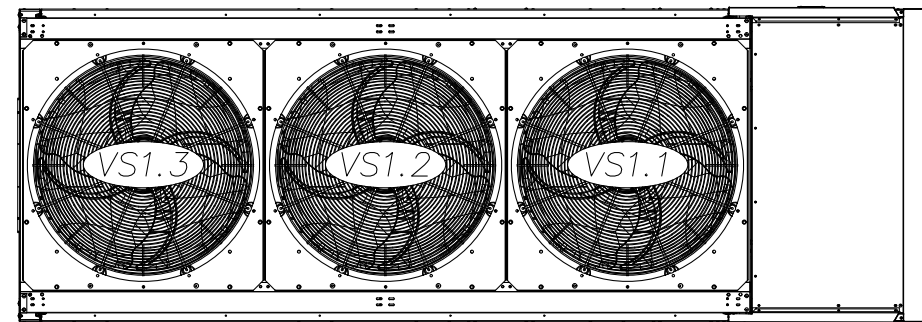
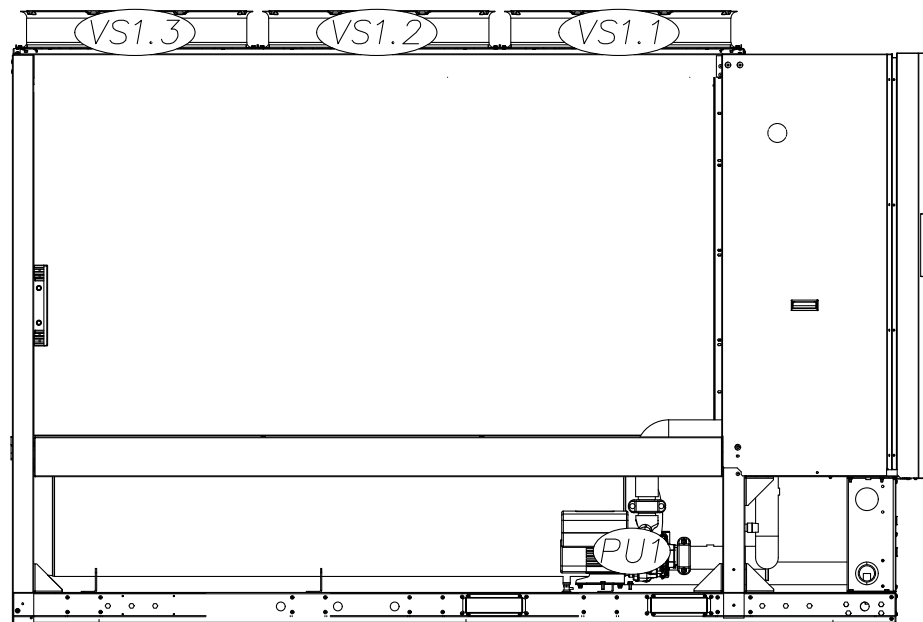
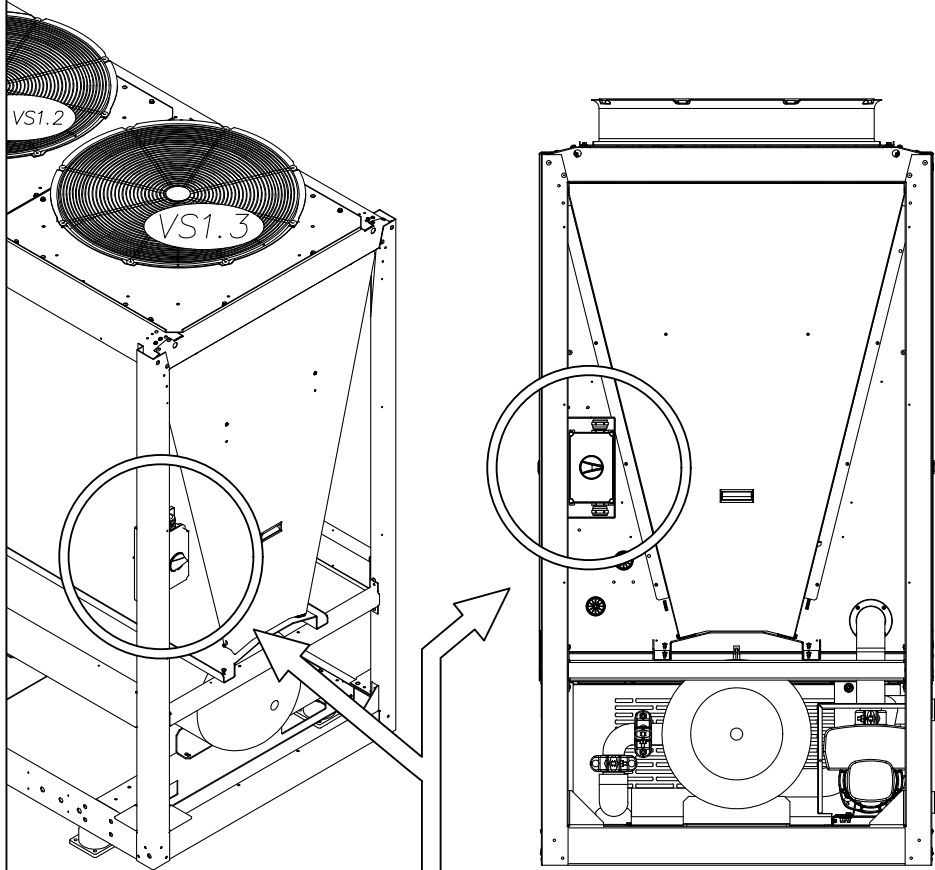
Standard power supply



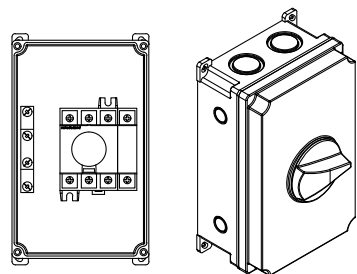
Power supply with optional main switch



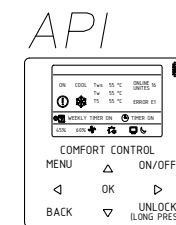
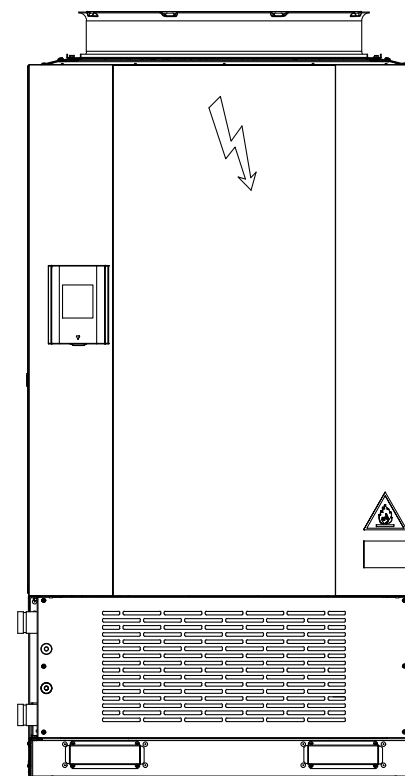
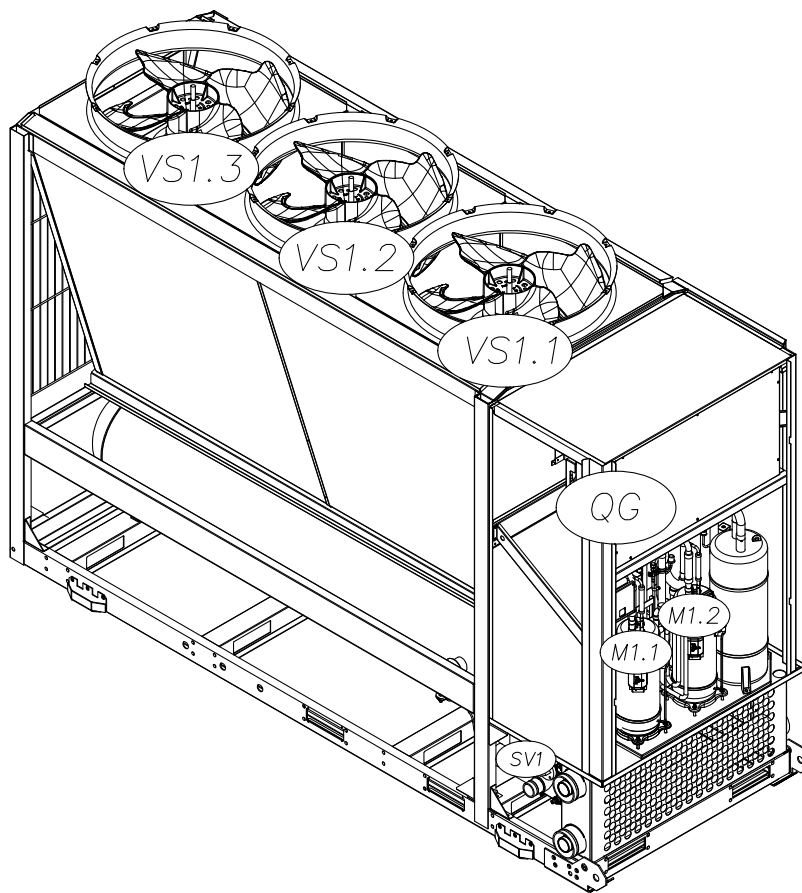
Back of the unit

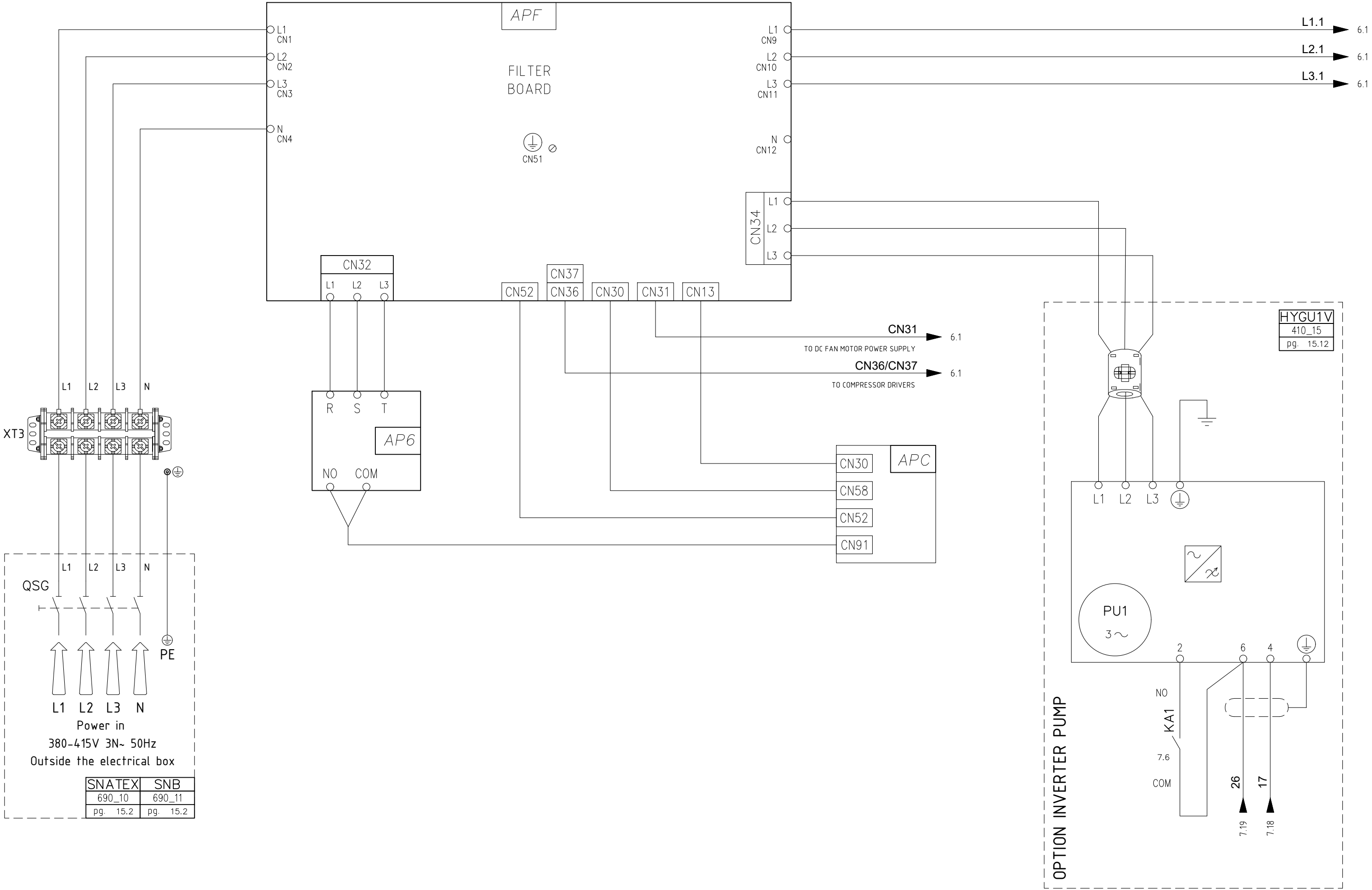


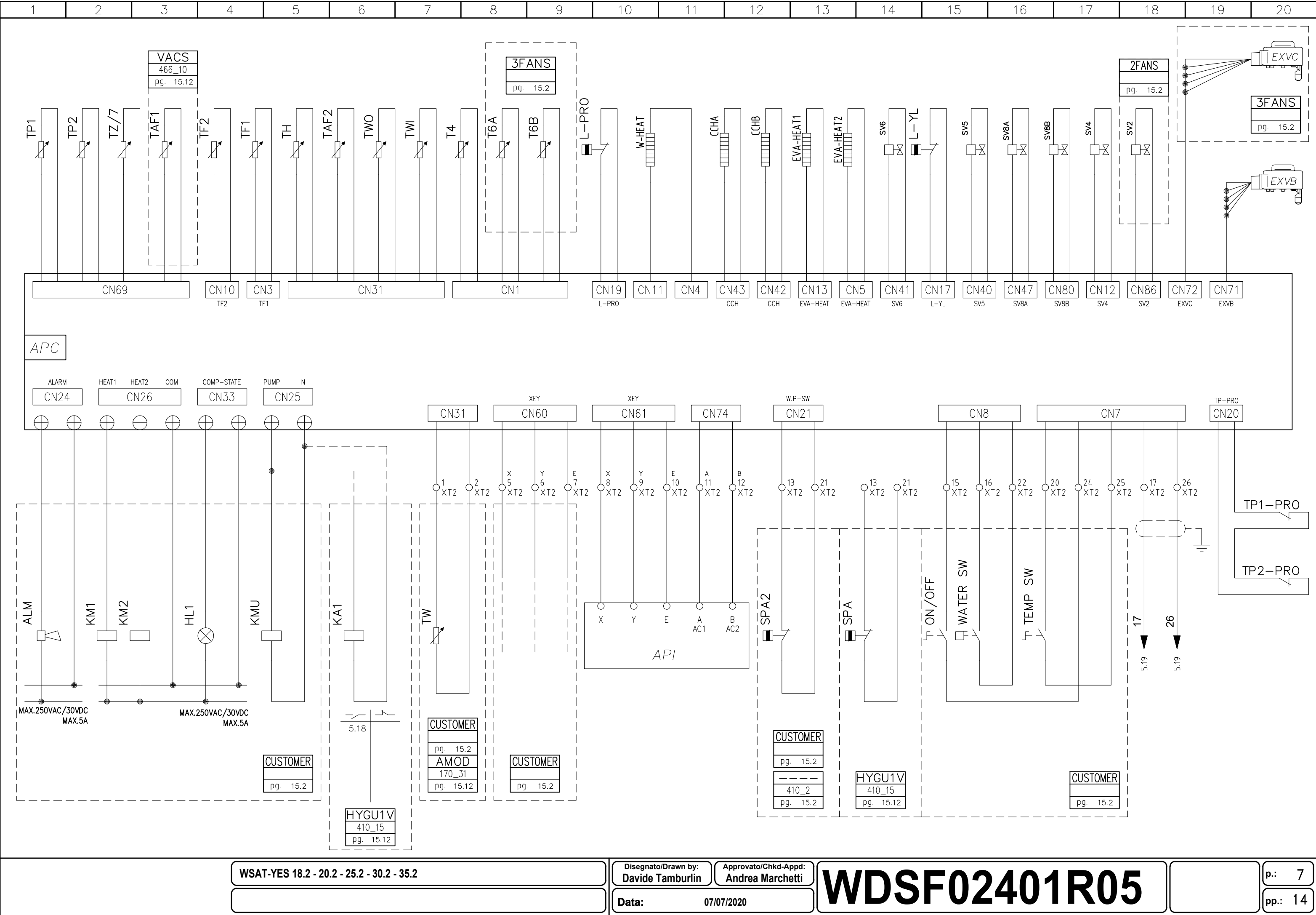
Main Switch



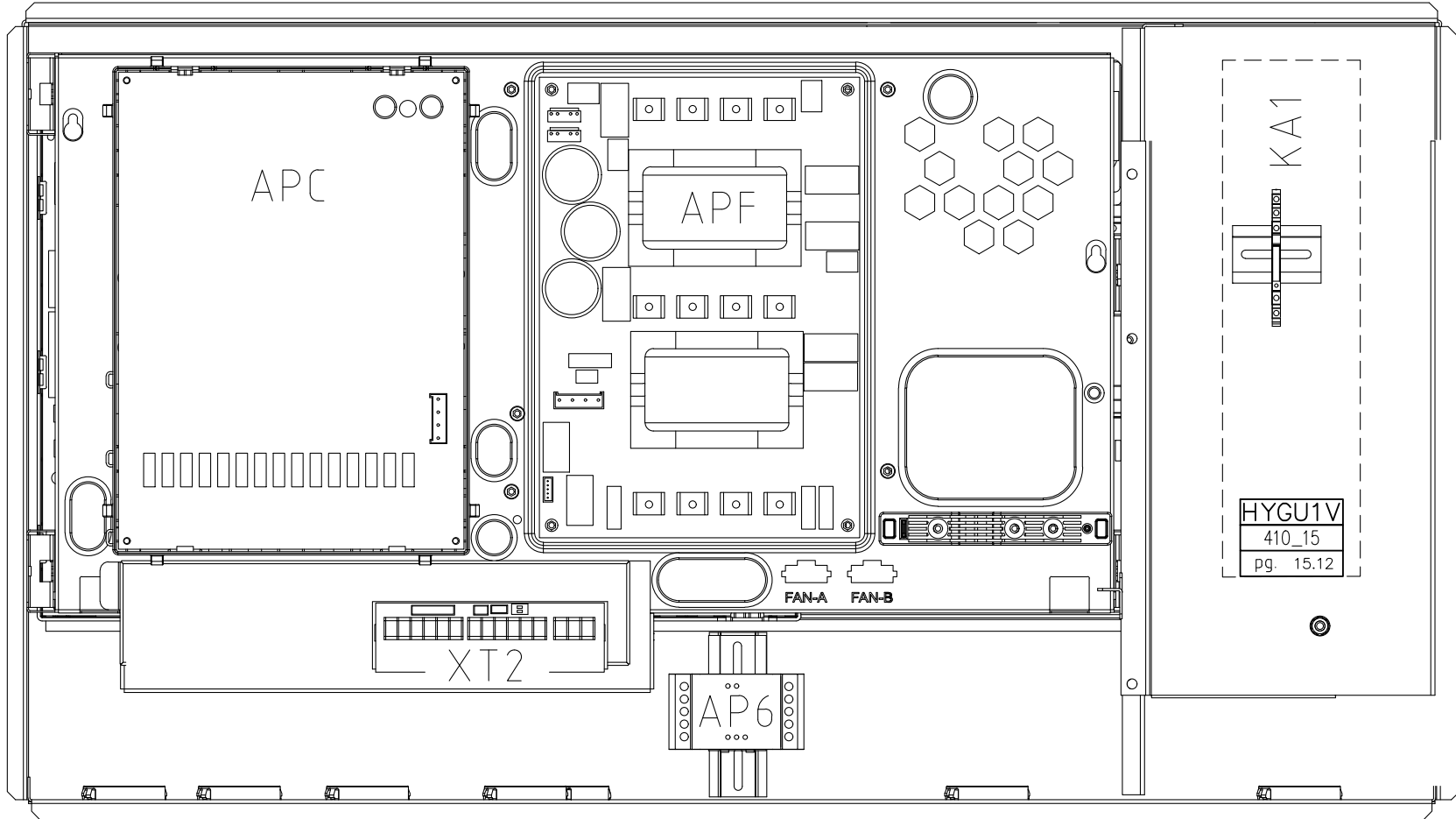
SNATEX	SNB
690_10	690_11
pg. 15.2	pg. 15.2







LAYER 1



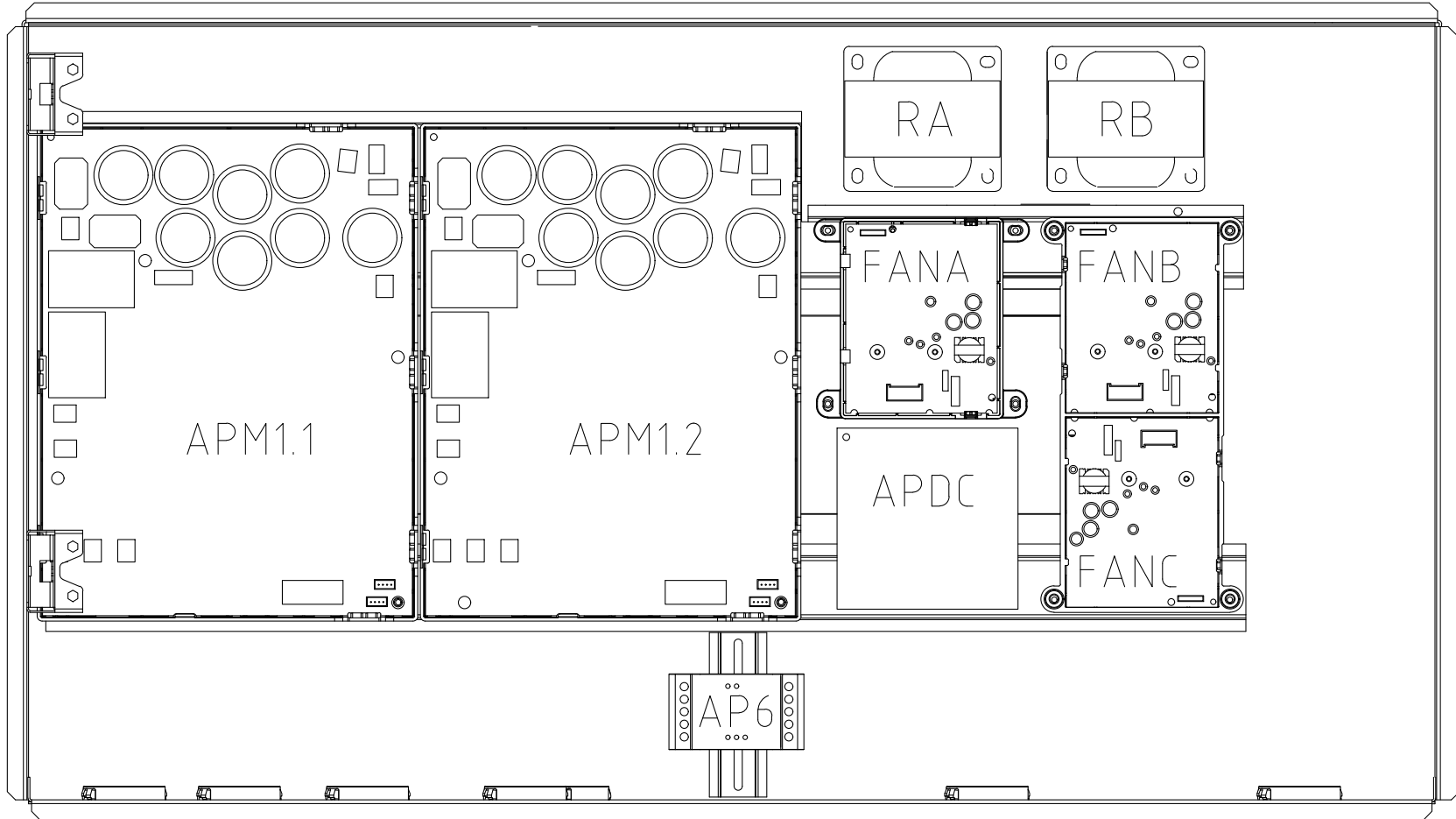
QG - XT1

HEAT1	☐
HEAT2	☐
COM	☐
COMP	☐
STATE	☐
PUMP	☐
N	☐
SV2	☐
NO	☐
NC	☐
N	☐

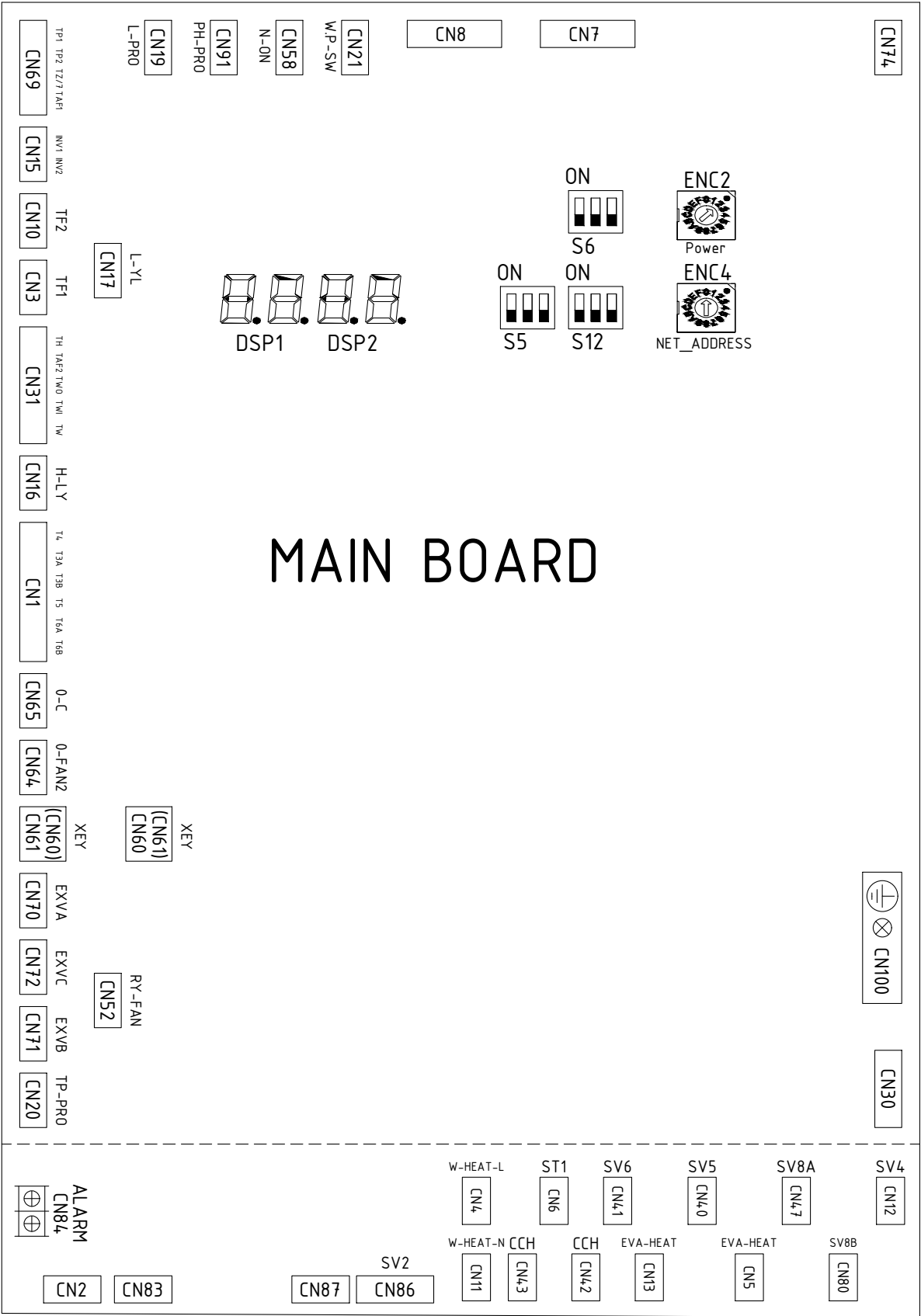
QG - XT2

1	☐
2	☐
3	☐
4	☐
5	☐
6	☐
7	☐
8	☐
9	☐
10	☐
11	☐
12	☐
13	☐
14	☐
15	☐
16	☐
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26	☐

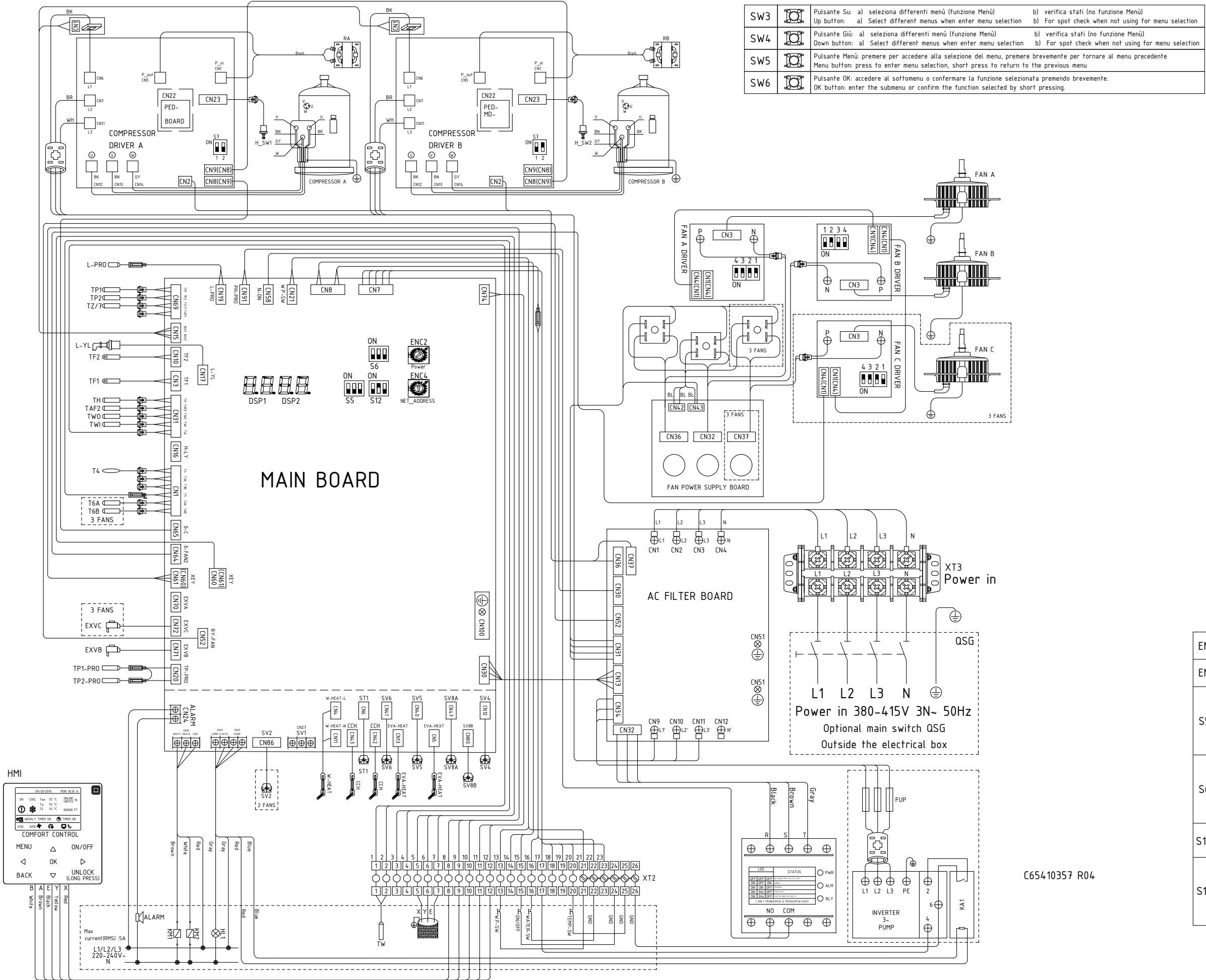
LAYER 2



Main Board layout and settings



SW3		Pulsante Su: a) seleziona differenti menù (funzione Menù) b) verifica stati (no funzione Menù) Up button: a) Select different menus when enter menu selection b) For spot check when not using for menu selection
SW4		Pulsante Giù: a) seleziona differenti menù (funzione Menù) b) verifica stati (no funzione Menù) Down button: a) Select different menus when enter menu selection b) For spot check when not using for menu selection
SW5		Pulsante Menù: premere per accedere alla selezione del menu, premere brevemente per tornare al menu precedente Menu button: press to enter menu selection, short press to return to the previous menu
SW6		Pulsante OK: accedere al sottomenu o confermare la funzione selezionata premendo brevemente. OK button: enter the submenu or confirm the function selected by short pressing.
ENC2		Rotary switch potenza unità : 1, (n°2 ventilatori); 2, (n°3 ventilatori) Rotary switch of outdoor unit capacity: : 1, (n°2 fans); 2, (n°3 fans)
ENC4		Rotary switch 0-F per indirizzamento unità (da 0 a 15) Rotary switch 0-F of outdoor unit network address is enabled, which represent address 0-15
S5-3	ON OFF 3	Controllo remoto, OFF = abilitato (impostazione fredefinita) Remote control , OFF of S5-3 is enabled(factory default)
	ON OFF 3	Controllo remoto, ON = abilitato Remote control, ON of S5-3 is enabled
S6-1	ON OFF 1	Modalità di raffreddamento, valido per S6-1 OFF Cooling machine model,Valid for S6-1 OFF
	ON OFF 1	Modalità di raffreddamento libero, valido per S6-1 ON Free Cooling machine model,Valid for S6-1 ON
S12-1	ON OFF 1	OFF = 90kW abilitato (impostazione predefinita) Clivet 90kW OFF of S12-1 is enabled(factory default)
S12-2	ON OFF 2	OFF = pompa singola (impostazione predefinita) Single water pump control, OFF of S12-2 is enabled(factory default)
	ON OFF 2	ON = pompa multipla abilitata Multiple water pumps control, ON of S12-2 is enabled

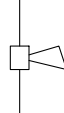
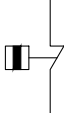
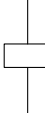
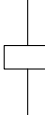
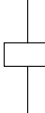
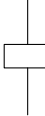
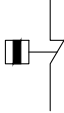
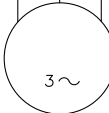
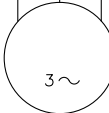
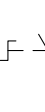
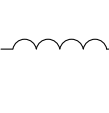


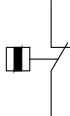
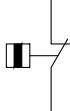
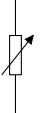
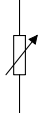
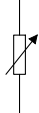
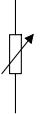
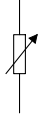
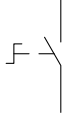
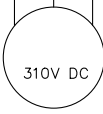
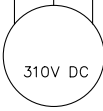
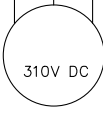
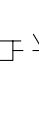
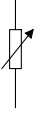
SW3		Pulsante Su: a) seleziona differenti menù (funzione Menù) b) verifica stati (no funzione Menù) Up button: a) Select different menus when enter menu selection b) For spot check when not using for menu selection
SW4		Pulsante Giù: a) seleziona differenti menù (funzione Menù) b) verifica stati (no funzione Menù) Down button: a) Select different menus when enter menu selection b) For spot check when not using for menu selection
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SW6		Pulsante OK: accedere al sottomenu o confermare la funzione selezionata premendo brevemente. OK button: enter the submenu or confirm the function selected by short pressing.

Sigla/Code	Descrizione/Name
CCH	Resistenza carter compressore Crankcase heater
COOL	Segnale remoto cool Cool signal
EVA-HEAT	Resistenza antigelo evaporatore Plate heat exchanger heater
EXVB/EXVC	Valvola espansione elettronica Electronic expansion valve
FAN A/B/C	Ventilatore DC DC fan
FUP	Fusibile di protezione pompa inverter Inverter pump protection fuse
HL1	Spia di stato del compressore Signal lamp of compressor status
H_SW1/2 L-PRO	Pressostato alta/bassa pressione High/low pressure switch
KA1	Relè ausiliario dell'inverter della pompa Auxiliary relay of the pump inverter
KM1	Contatto per riscaldatore ausiliario del tubo Control contactor for auxiliary heater of pipe
KM2	Contatto per riscaldatore ausiliario del serbatoio dell'acqua Control contactor for auxiliary heater of water tank
L-YL	Trasduttore bassa pressione Low pressure trasducer
ON/OFF	Segnale remoto ON/OFF Remote Stop signal
RA/RB	Reattanza Reactor
ST1	Valvola 4 vie Four-way valve
SV4/SV5/SV6 SV8A/SV8B	Valvola solenoide Solenoid valve
TAF2	Temperatura uscita scambiatore (protezione antigelo) Water side antifreeze temperature
TF1/TF2	Temperatura dissipatore inverter comp. Compressor inverter heatsink temperature
TEMP-SW	Selettore remoto cambio set point Target water temperature switching
TH	Temperatura aspirazione Suction temperature
TP1/TP2	Temperatura scarico compressore Discharge temperature
TP1-PRO/TP2-PRO	Termostato scarico compressore Discharge temperature protection switch
TW1	Temperatura ingresso acqua Inlet water temperature
TW2	Temperatura uscita acqua Outlet water temperature
TW	Temperatura uscita acqua gruppo Total outlet water temperature
TZ/7	Temperatura liquido Liquid temperature
T4	Temperatura esterna External temperature
T6A/T6B	Temperatura ingresso/uscita scambiatore Plate heat exchanger in let/out let temperature
W.P-SW	Pressostato carico impianto Water pressure switch
XT1/XT2/XT3	Morsettiera Terminal block

ENC2		Rotary switch potenza unità : 1, (n°2 ventilatori); 2, (n°3 ventilatori) Rotary switch of outdoor unit capacity: : 1, (n°2 fans); 2, (n°3 fans)
ENC4		Rotary switch 0-F per indirizzamento unità (da 0 a 15) Rotary switch 0-F of outdoor unit network address is enabled, which represent address 0-15
S5-3		ON OFF 3 Controllo remoto, OFF = abilitato (impostazione predefinita) Remote control , OFF of S5-3 is enabled(factory default)
S6-1		ON OFF 1 Modalità di raffreddamento, valido per S6-1 OFF Cooling machine model,Valid for S6-1 OFF ON OFF 1 Modalità di raffreddamento libero, valido per S6-1 OFF Free Cooling machine model,Valid for S6-1 ON
S12-1		ON OFF 1 OFF = 90kW abilitato (impostazione predefinita) Clivet 90kW OFF of S12-1 is enabled(factory default)
S12-2		ON OFF 2 OFF = pompa singola (impostazione predefinita) Single water pump control, OFF of S12-2 is enabled(factory default) ON OFF 2 ON = pompa multipla abilitata Multiple water pumps control, ON of S12-2 is enabled

C65410357 R04

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G																						
Sim.\Sym.	Sigla\Item	Funzione/User type								Sim.\Sym.	Sigla\Item	Funzione/User type										
	ALM Customer 7	Segnalazione blocco cumulativo Cumulative Fault Signal Signalisation Alarme Sammelstörmeldung Señalización Bloqueo Cumulativo									H-SW2 QG 6	Pressostato di alta pressione 2 High Pressure Switch 1 Pressostat Haute Pression 1 Hochdruckschalter 1 Presostato De Alta 1										
	AP6 QG 5	Modulo monitore di fase Phase Monitor Module Module Moniteur De Phase Modul Phasenmonitor Módulo Monitor De Fase									HL1 Customer 7	Lampada di segnalazione stato compressore Compressor Status Signal Lamp Lampe De Signalisation État Compresseur Signallampe Verdichterzustand Lámpara De Señalización Estado Compresor										
	APC QG 7	Modulo di controllo Master Master Control Module Module De Contrôle Maître Steuermodul Master Módulo De Control Master									KA1 QG 7	Contattore di comando pompa Pump Control Contactor Provided Contacteur Commande Pompe Pumpensteuerungsschutz Contactor De Accionamiento Bomba										
	APF QG 5	Modulo filtri Filters Module Module Filtres Filtermodul Módulo De Filtros									KM1 Customer 7	Relè di comando resistenza ausiliaria tubatura acqua Water Pipe Auxiliary Heater Control Relay Relais De Commande De Chauffage Auxiliaire De Conduite D'eau Steuerrelais Wasserleitung Zusatzheizung Relé De Control Del Calentador Auxiliar De La Tubería De Agua										
	API QG 7	Interfaccia HMI Hmi Interface Interface Ihm Hmi-schnittstelle Interfaz Hmi									KM2 Customer 7	Relè di comando resistenza ausiliaria accumulo acqua sanitaria Auxiliary Heater Control Relay For Domestic Hot Water Storage Relais De Commande De Chauffage D'appoint Pour Le Stockage D'eau Chaude Sanitaire Zusatzheizungs-steuerrelais Für Die Warmwasserspeicherung Relé De Control De Calefacción Auxiliar Para Almacenamiento De Agua Caliente Sanitaria										
	CCHA QG 7	Resistenza carter compressore 1 circuito 1 Compressor 1 Crankcase Heater Circuit 1 Résistance Carter Compresseur 1 Circuit 1 Verdichter Kurbelwiderstand 1 Kreislauf 1 Resistencia Carter Compresor 1 Circuito 1									KMU Customer 7	Contattore di comando pompa a carico cliente Pump Control Contactor Provided By The Costumer) Contacteur Commande Pompe à La Charge Du Client Kundeseitiger Schaltgeber Pumpensteuerung Contactor De Accionamiento Bomba a Cargo Del Cliente										
	CCHB QG 7	Resistenza carter compressore 1 circuito 2 Compressor 1 Crankcase Heater Circuit 2 Résistance Carter Compresseur 1 Circuit 2 Verdichter Kurbelwiderstand 1 Kreislauf 2 Resistencia Carter Compresor 1 Circuito 2									L-PR0 QG 7	Pressostato di bassa pressione Low Pressure Switch Pressostat Bp Nd-druckschalter Presôstato De Baja Presión										
	EVA-HEAT1 QG 7	Resistenza antigelo evaporatore Evaporator Antifreeze Heater Résistance Antigél Évaporateur Frostschutzwiderstand Verdampfer Resistencia Antihielo Evaporador									L-YL Customer 7	Trasduttore di bassa pressione Low Pressure Transducer Transducteur De Basse Pression Nd-transmitter Transductor De Baja Presión										
	EVA-HEAT2 QG 7	Resistenza antigelo evaporatore Evaporator Antifreeze Heater Résistance Antigél Évaporateur Frostschutzwiderstand Verdampfer Resistencia Antihielo Evaporador									M1.1 QG 6	Compressore 1 circuito 1 Compressor 1 Circuit 1 Compresseur 1 Circuit 1 Verdichter 1 Kreislauf 1 Compresor 1 Circuito 1										
	EXVB QG 7	Valvola termostatica Thermostatic Valve Vanne Thermostatique Thermostatisches Ventil Válvula Termostática									M1.2 QG 6	Compressore 1 circuito 2 Compressor 1 Circuit 2 Compresseur 1 Circuit 2 Verdichter 1 Kreislauf 2 Compresor 1 Circuito 2										
	EXVC QG 7	Valvola termostatica Thermostatic Valve Vanne Thermostatique Thermostatisches Ventil Válvula Termostática									ON/OFF Customer 7	Selettore on/off remoto Remote On/off Selector Sélecteur On/off Déporté Fernwahlschalter Ein/aus Selector On/off Remoto										
	H-SW1 QG 6	Pressostato di alta pressione 1 High Pressure Switch 1 Pressostat Haute Pression 1 Hochdruckschalter 1 Presostato De Alta 1									RA QG 6	Reattanza Reactance Réactance Reaktanz Resistencia Reactiva										
WSAT-YES 18.2 - 20.2 - 25.2 - 30.2 - 35.2										Disegnato/Drawn by: Davide Tamburlin		Approvato/Chkd-Appd: Andrea Marchetti		WDSF02401R05							p.: 11	
										Data:		07/07/2020									pp.: 14	

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Sim.\Sym.	Sigla\Item	Funzione/User type								Sim.\Sym.	Sigla\Item	Funzione/User type									
	RB QG 6	Reattanza Reactance Réactance Reaktanz Resistencia Reactiva									TAF1 QG 7	Sensore antigelo su acqua in uscita dallo scambiatore Antifreeze Sensor On Exchanger Outlet Water Sonde Antigel En Sortie à L'échangeur Frostschutzsensor An Wasser, Das Den Wärmetauscher Verlässt Sensor Antihielo De Agua En Salida De Intercambiador									
	SPA QG 7	Pressostato controllo carico impianto System Charge Control Pressure Switch Pressostat De Contrôle Charge De L'installation Druckschalter Anlagenladung Presóstató Control Carga Equipo									TAF2 QG 7	Sensore antigelo su acqua in uscita dallo scambiatore Antifreeze Sensor On Exchanger Outlet Water Sonde Antigel En Sortie à L'échangeur Frostschutzsensor An Wasser, Das Den Wärmetauscher Verlässt Sensor Antihielo De Agua En Salida De Intercambiador									
	SPA2 Customer 7	Pressostato controllo carico impianto System Charge Control Pressure Switch Pressostat De Contrôle Charge De L'installation Druckschalter Anlagenladung Presóstató Control Carga Equipo									TH QG 7	Sonda di temperatura linea aspirazione Return Line Temperature Probe Sonde De Température Ligne Aspiration Saugleitung Temperaturfühler Sonda Di Temperatura Línea Aspiración									
	T4 QG 7	Sonda di temperatura ambiente Ambient Air Temperature Probe Sonde De Température Ambiente Temperaturfühler Außenluft Sonda De Temperatura Ambiente									TP1 QG 7	Sonda di temperatura scarico compressore/i circuito 1 Compressor/s Discharge Temperature Probe Circuit 1 Sonde De Température De Décharge Compresseur/s Circuit 1 Auslasstemperaturfühler Verdichter Kreislauf 1 Sonda De Temperatura De Descarga Compresor/es Circuito 1									
	T6A QG 7	Sonda di temperatura ingresso desurriscaldatore Desuperheater Inlet Temperature Probe Sonde De Température D'entrée Du Désurchauffeur Einlasstemperaturfühler Des Überhitzers Sonda De Temperatura De Entrada Del Atemperador									TP2 QG 7	Sonda di temperatura scarico compressore/i circuito 2 Compressor/s Discharge Temperature Probe Circuit 2 Sonde De Température De Décharge Compresseur/s Circuit 2 Auslasstemperaturfühler Verdichter Kreislauf 2 Sonda De Temperatura De Descarga Compresor/es Circuito 2									
	T6B QG 7	Sonda di temperatura uscita desurriscaldatore Desuperheater Outlet Temperature Probe Sonde De Température De Sortie Du Désurchauffeur Auslasstemperaturfühler Des Überhitzers Sonda De Temperatura De Salida Del Atemperador									TZ/7 QG 7	Sonda di temperatura refrigerante in uscita dalla batteria Coolant Temperature Probe Leaving The Coil Sonde De Température Du Liquide De Refroidissement Quittant La Batterie Kühlmitteltemperaturfühler Verlässt Die Spule Sonda De Temperatura Del Refrigerante Que Sale Del Serpentín									
	TEMP SW Customer 7	Selettore remoto per cambio set-point Remote Set-point Variation Selector Sélecteur Déporté Pour Changement De Consigne Fernwahlschalter Sollwertwechsel Selector Remoto Para Cambio Set-point									VS1.1 QG 6	Ventilatore sorgente 1 ciruito 1 Source Fan 1 Circuit 1 Ventilateur Source 1 Ciruit 1 Quelle Ventilator 1 Kreislauf 1 Ventilador Fuente 1 Circuito 1									
	TF1 QG 7	Sonda di temperatura modulo controllo compressore Compressor Control Module Temperature Probe Sonde De Température Du Module De Commande Du Compresseur Temperaturfühler Des Kompressorsteuermoduls Sonda De Temperatura Del Módulo De Control Del Compresor									VS1.2 QG 6	Ventilatore sorgente 2 ciruito 1 Source Fan 2 Circuit 1 Ventilateur Source 2 Ciruit 1 Quelle Ventilator 2 Kreislauf 1 Ventilador Fuente 2 Circuito 1									
	TF2 QG 7	Sonda di temperatura modulo controllo compressore Compressor Control Module Temperature Probe Sonde De Température Du Module De Commande Du Compresseur Temperaturfühler Des Kompressorsteuermoduls Sonda De Temperatura Del Módulo De Control Del Compresor									VS1.3 QG 6	Ventilatore sorgente 3 ciruito 1 Source Fan 3 Circuit 1 Ventilateur Source 3 Ciruit 1 Quelle Ventilator 3 Kreislauf 1 Ventilador Fuente 3 Circuito 1									
	TW QG 7	Sonda di temperatura totale al collettore dell'acqua in uscita Total Temperature Probe At The Outlet Water Collector Sonde De Température Totale Au Collecteur D'eau De Sortie Gesamttemperaturfühler Am Auslasswassersammler Sonda De Temperatura Total En El Colector De Agua De Salida									W-HEAT QG 7	Resistenza antigelo flussostato Flow Switch Antifreeze Heater Résistance Antigél Pour Interrupteur De Débit Frostschutzheizung Des Durchflussschalters Calentador Anticongelante Del Interruptor De Flujo									
	TWI QG 7	Sonda di temperatura acqua ingresso Inlet Temperature Probe Sonde De Température Eau En Entrée Wassereintrittstemperaturfühler Sonda De Temperatura Agua Entrada									WATER SW QG 7	Flussostato Flow Switch Contrôleur De Débit Strömungswächter Flujostato									
	TWO QG 7	Sonda di temperatura acqua uscita Water Outlet Temperature Probe Sonde De Température Eau à La Sortie Temperaturfühler Wasseraustritt Sonda De Temperatura Agua Salida																			
WSAT-YES 18.2 - 20.2 - 25.2 - 30.2 - 35.2										Disegnato/Drawn by: Davide Tamburlin		Approvato/Chkd-Appd: Andrea Marchetti		WDSF02401R05						p.: 12	
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	CUSTOMER 3.20 7.5 7.7 7.8 7.13 7.17	Collegamenti a cura del cliente Connections performed by customer Raccordements à la charge du client Kundenseitige Anschlüsse Conexiones a cargo del cliente									AMOD 170_31 3.7 7.7	Attacchi acqua per unità modulare Water connections for modular units Connexions d'eau pour les unités modulaires Wasseranschlüsse für modulare Einheiten Conexiones de agua para unidades modulares							
	2FANS 7.18	Solo con 2 ventilatori Only with 2 fans Seulement avec 2 fans Nur mit 2 Fans Solo con 2 ventiladores									VACS 466_10 3.14 3.14 3.18 7.3	Valvola acqua calda sanitaria Sanitary hot water valve Vanne d'eau chaude sanitaire Sanitär-Heißwasserventil Válvula sanitaria de agua caliente							
	3FANS 6.20 7.8 7.20	Solo con 3 ventilatori Only with 3 fans Seulement avec 3 fans Nur mit 3 Fans Solo con 3 ventiladores									HYGU1V 410_15 5.19 7.6 7.14 9.11	Gruppo idronico lato utilizzo con una pompa ad inverter Groupe hydraulique côté utilisation avec 1 pompe à inverter Groupe hydraulique côté utilisation avec 1 pompe à inverter Hydronikgruppe Verbraucherseite mit 1 Inverter-Pumpe Grupo hidrónico lado utilización con una bomba a inverter							
	SNATEX 690_10 2.17 4.4 5.3	Disconnecter near the unit Disconnecter near the unit Sectionneur près de l'unité Trennschalter in der Nähe des Geräts Desconector cerca de la unidad																	
	SNB 690_11 2.18 4.4 5.3	Sezionatore a bordo unità On-board disconnecter Sectionneur embarqué Bordtrennschalter Seccionador de a bordo																	
	----- 410_2 3.5 3.7 3.10 3.14 7.13	Gruppo idronico lato utilizzo: non richiesto Groupe hydraulique côté utilisateur: pas demandé Groupe hydraulique côté utilisateur: pas demandé Hydronikgruppe Verbraucherseite: nicht erforderlich (-) Grupo hidrónico en el lado de uso: no solicitado																	
WSAT-YES 18.2 - 20.2 - 25.2 - 30.2 - 35.2										Disegnato/Drawn by: Davide Tamburlin		Approvato/Chkd-Appd: Andrea Marchetti		WDSF02401R05				p.: 13	
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REV NR	DATA	Autore	DESCRIZIONE MODIFICHE APPORTATE RISPETTO ALLA PRECEDENTE REVISIONE	Pagine Modificate
1	24/06/2020	D.T.	\	
2	28/09/2020	D.T.	Modificato contatto da NO a NC delle TP-PRO Modificata etichetta C65410357 togliendo la pompa ON-OFF	8-11
3	07/05/2021	D.T.	Aggiunto sezionatore opzionale e aggiornato schema elettrico unificato	2-5-11
4	28/06/2021	D.T.	Aggiornato sezionatore con posizione in macchina	2-3-4
5	05/04/2022	D.T.	Eliminata XT1 e aggiornata colorazione fili API	3-7-8-10
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Manufacturer: Company n°.00708410253
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