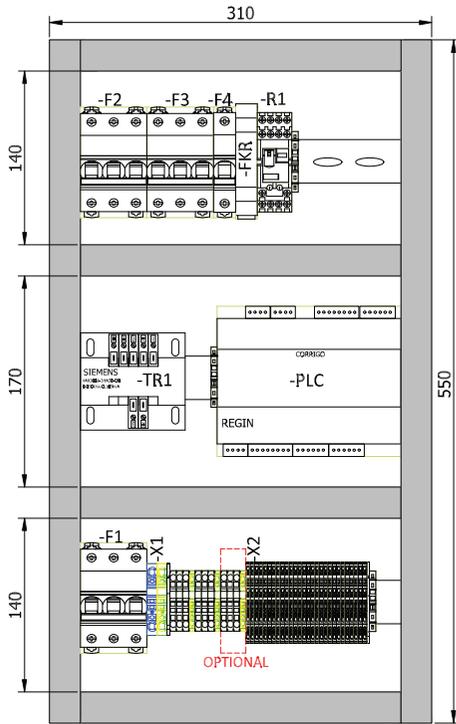
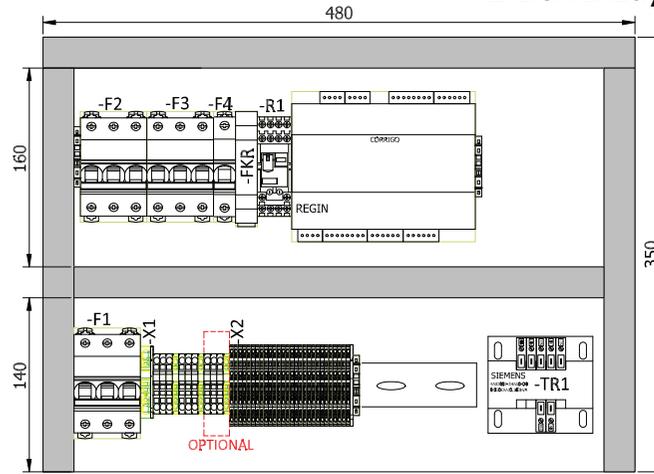


Pano Adı/Panel Name	ECV REGIN
Pano Tipi/Panel Type	MCC/DDC
Frekans/Frequency	50Hz
Voltaj/Voltage	380VAC
Kontrol Voltaj/Contol Voltage	220VAC-24VAC
Çizim Tarihi/Drawing Date	18.10.2024

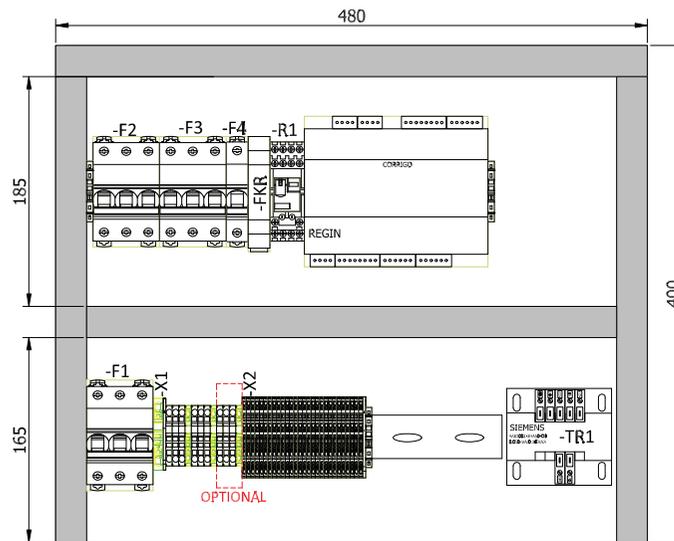
E-Box Dizayn



PANEL ASSEMBLY SHEET:
310 x 550 mm
CABLE DUCT: 25 x 40 mm
ECV-V 400 / ECV-V 500
ECV-V 700



PANEL ASSEMBLY SHEET:
480 x 350 mm
CABLE DUCT: 25 x 40 mm
ECV-H 500 / ECV-H 700



PANEL ASSEMBLY SHEET:
480 x 400 mm
CABLE DUCT: 25 x 40 mm
ECV-H 400

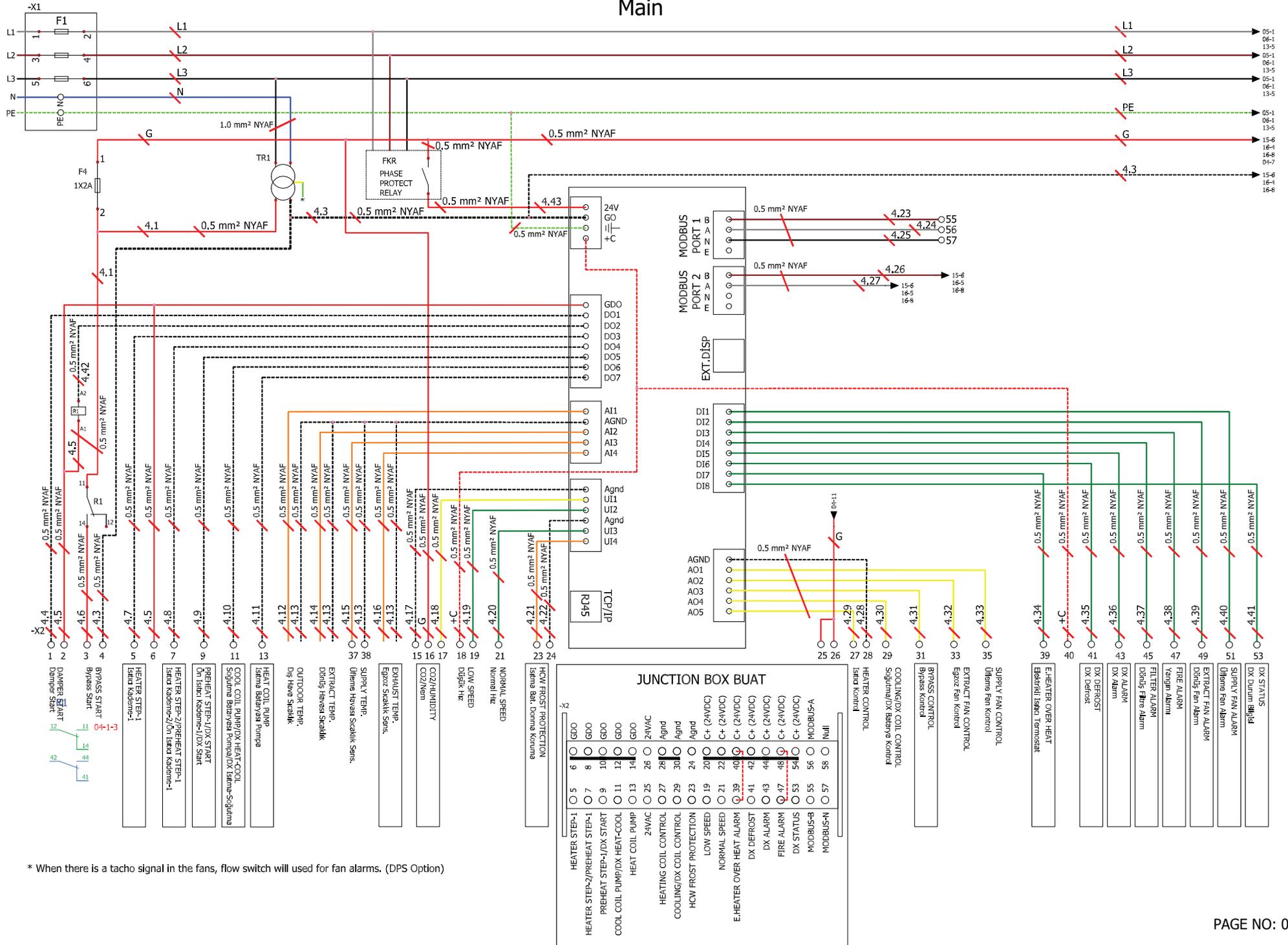
POWER CABLES	COLOR	CABLE CROSS
E-BOX POWER	-	5x2.5 mm ² TTR
PHASE (L1)	GREY	1x1 mm ² NYAF
PHASE (L2)	BROWN	1x1 mm ² NYAF
PHASE (L3)	BLACK	1x1 mm ² NYAF
NOTR (N)	BLUE	1x1 mm ² NYAF
GROUND (PE)	YELLOW-GREEN	1x1 mm ² NYAF

CONTROL CABLES	COLOR	CABLE CROSS
AC KONTROL (220VAC)	BLACK	1x0.5 mm ² NYAF
AC KONTROL (N)	BLUE	1x0.5 mm ² NYAF
AC KONTROL (24V)	RED	1x0.5 mm ² NYAF
AC KONTROL (G0)	WHITE	1x0.5 mm ² NYAF
ANALOG OUTPUT	YELLOW	1x0.5 mm ² NYAF
ANALOG INPUT	ORANGE	1x0.5 mm ² NYAF
NC/NO CONTACT	DARK GREEN	1x0.5 mm ² NYAF
MODBUS A	GREY	1x0.5 mm ² NYAF
MODBUS B	BROWN	1x0.5 mm ² NYAF
MODBUS GND	WHITE	1x0.5 mm ² NYAF

Cable Description

CABLE CODE	CABLE DESCRIPTION
F-SUP	SUPPLY FAN
F-EHA	EXHAUST FAN
BYP	BYPASS
RTR	ROTOR
T-ODA	OUTDOOR TEMPERATURE
T-SUP	SUPPLY TEMPERATURE
T-ETA	EXTRACT TEMPERATURE
T-EXH	EXHAUST TEMPERATURE
HT	ELECTRICAL POST HEATER
HT-F	ELECTRICAL POST HEATER ALARM
PHT	ELECTRICAL PRE HEATER
PHT-F	ELECTRICAL PRE HEATER ALARM
HCW	HEATING COIL WATER
CCW	COOLING COIL WATER
CO2	CO2 SENSOR
HUM	HUMIDITY SENSOR
DPS	DIRTY FILTER/DIFFERENCIAL PRESSURE SWITCH
T-FRZ	FROST TEMPERATURE
FTH	FROST THERMOSTAT
P-HEAT	PREHEATER

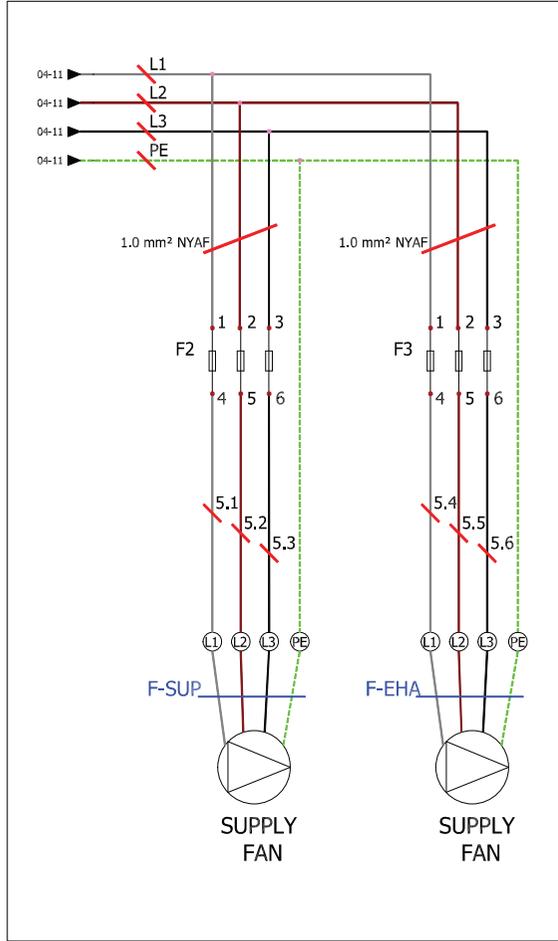
Main



JUNCTION BOX BUAT

HEATER STEP-1	6	GND	57
HEATER STEP-2/PREHEAT STEP-1	5	GND	58
PREHEAT STEP-1/DX START	7	GND	59
COOL COIL PUMP/DX HEAT-COOL	11	GND	60
HEAT COIL PUMP	13	GND	61
HEATING COIL CONTROL	25	24VAC	62
COOLING/DX COIL CONTROL	26	Agnd	63
HCV FROST PROTECTION	27	Agnd	64
LOW SPEED	28	Agnd	65
NORMAL SPEED	29	Agnd	66
E-HEATER OVER HEAT ALARM	30	C+ (24VDC)	67
DX DEFROST	31	C+ (24VDC)	68
DX ALARM	32	C+ (24VDC)	69
FIRE ALARM	33	C+ (24VDC)	70
DX STATUS	34	C+ (24VDC)	71
MODBUS-B	35	MODBUS-B	72
MODBUS-N	36	MODBUS-N	73
MODBUS-+	37	MODBUS-+	74
MODBUS-0	38	MODBUS-0	75
MODBUS-1	39	MODBUS-1	76
MODBUS-2	40	MODBUS-2	77
MODBUS-3	41	MODBUS-3	78
MODBUS-4	42	MODBUS-4	79
MODBUS-5	43	MODBUS-5	80
MODBUS-6	44	MODBUS-6	81
MODBUS-7	45	MODBUS-7	82
MODBUS-8	46	MODBUS-8	83
MODBUS-9	47	MODBUS-9	84
MODBUS-10	48	MODBUS-10	85
MODBUS-11	49	MODBUS-11	86
MODBUS-12	50	MODBUS-12	87
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MODBUS-227	265	MODBUS-227	302
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MODBUS-2			

EBM Fan Connections



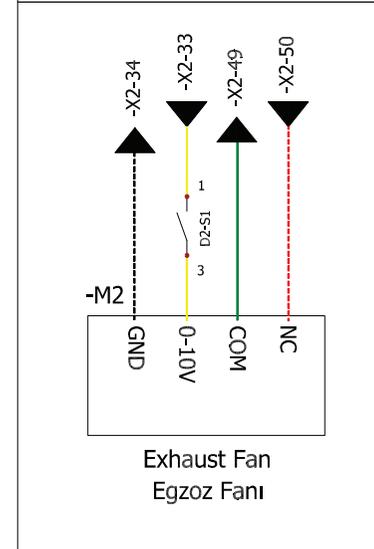
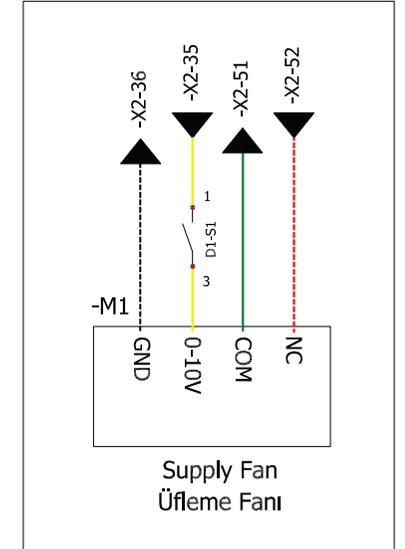
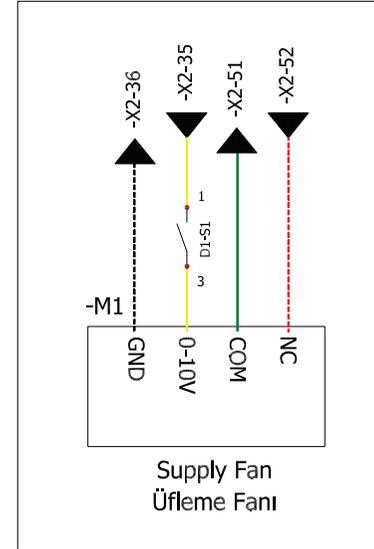
ECV 400-500-700-900-1100

Note:

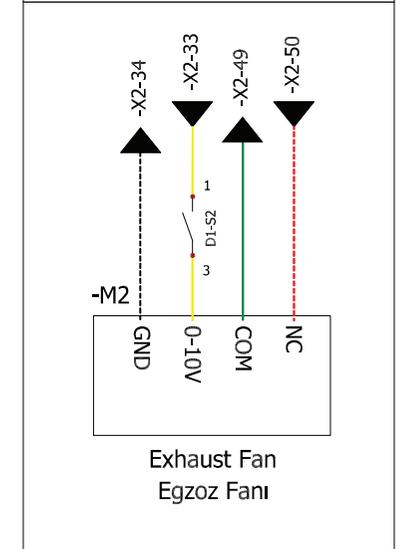
D1-S : Damper 1 Open Switch
 D2-S : Damper 2 Open Switch
 Damper open switches are only used when outlet dampers are configured.

Not:

D1-S : Damper 1 Açık Switchi
 D2-S : Damper 2 Açık Switchi
 Damper açma anahtarları yalnızca çıkış damperleri konfigüre edildiğinde kullanılır.

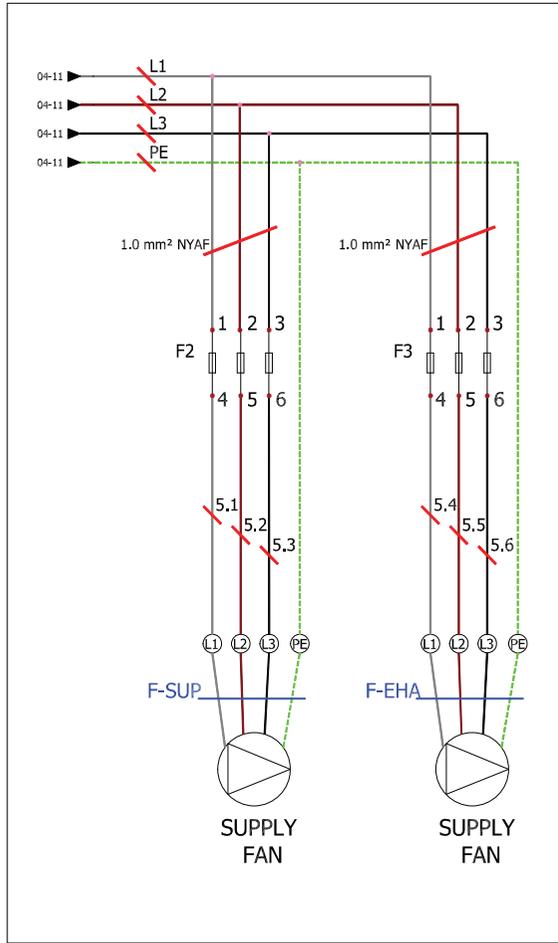


ECV V



ECV H

Swiss Fan Connections



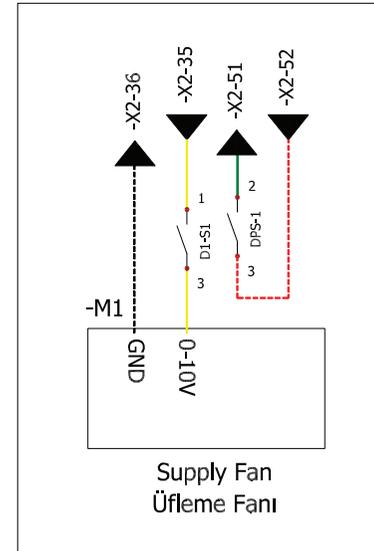
ECV 400-500-700-900-1100

Note:

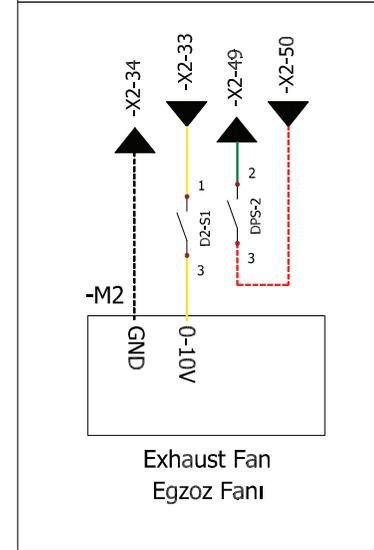
D1-S : Damper 1 Open Switch
 D2-S : Damper 2 Open Switch
 Damper open switches are only used when outlet dampers are configured.

Not:

D1-S : Damper 1 Açık Switchi
 D2-S : Damper 2 Açık Switchi
 Damper açma anahtarları yalnızca çıkış damperleri konfigüre edildiğinde kullanılır.

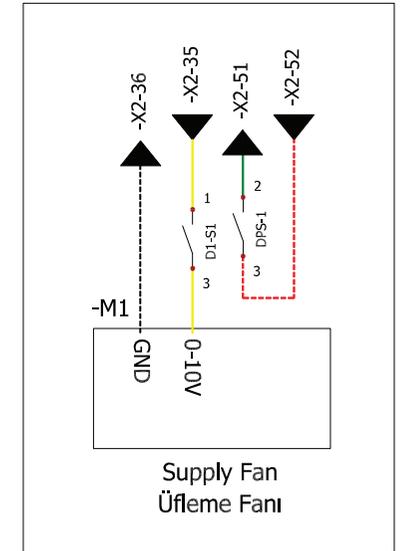


Supply Fan
Üfleme Fanı

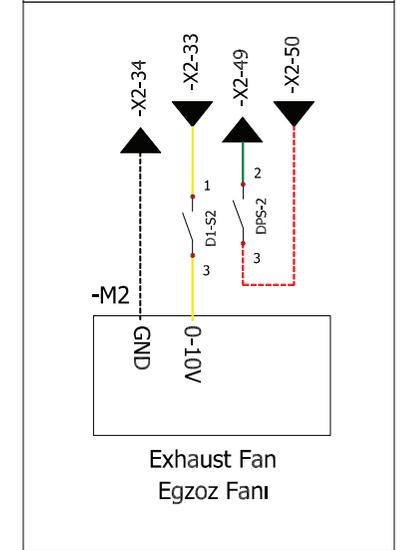


Exhaust Fan
Egzoz Fanı

ECV V



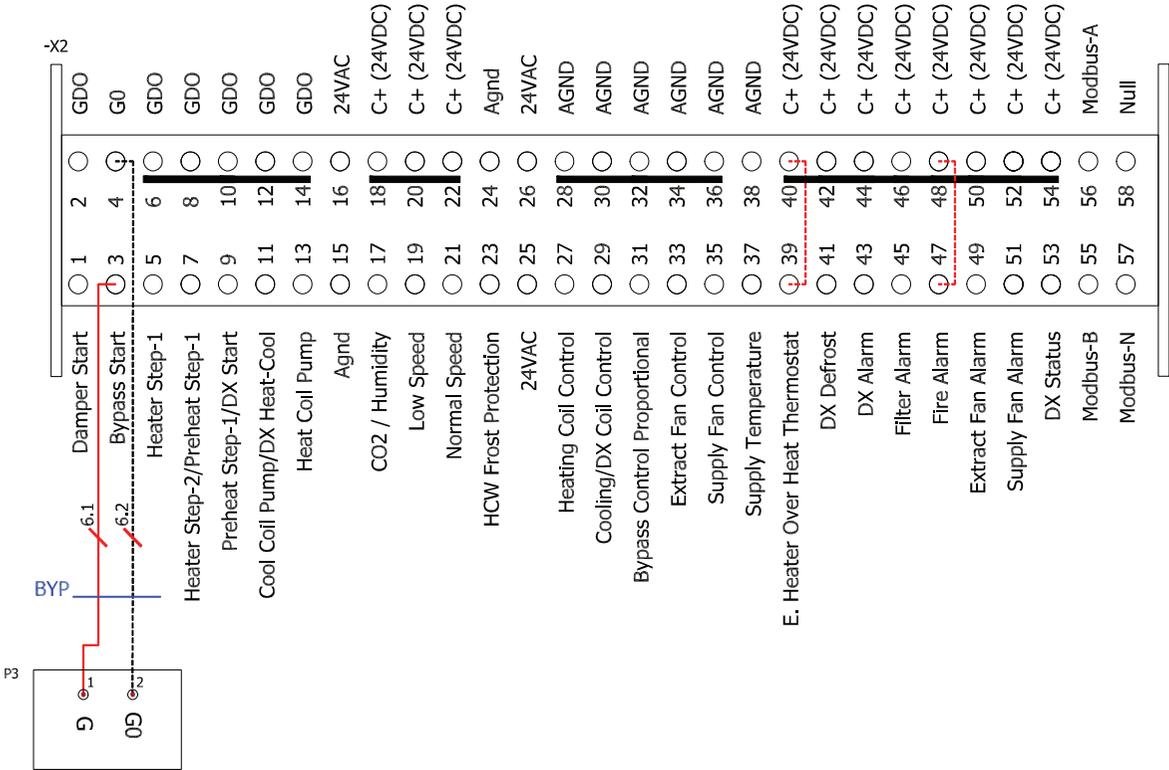
Supply Fan
Üfleme Fanı



Exhaust Fan
Egzoz Fanı

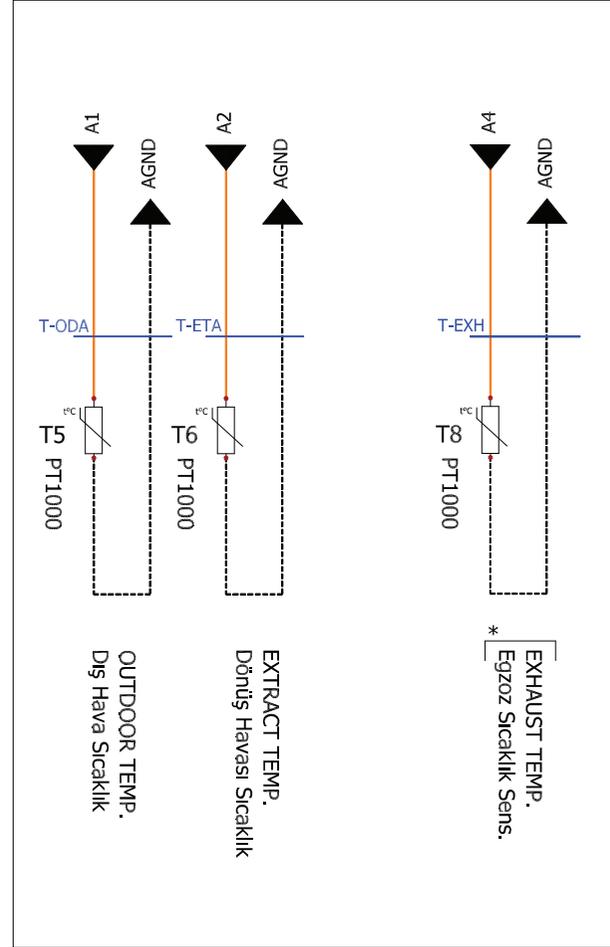
ECV H

Bypass On/Off Control



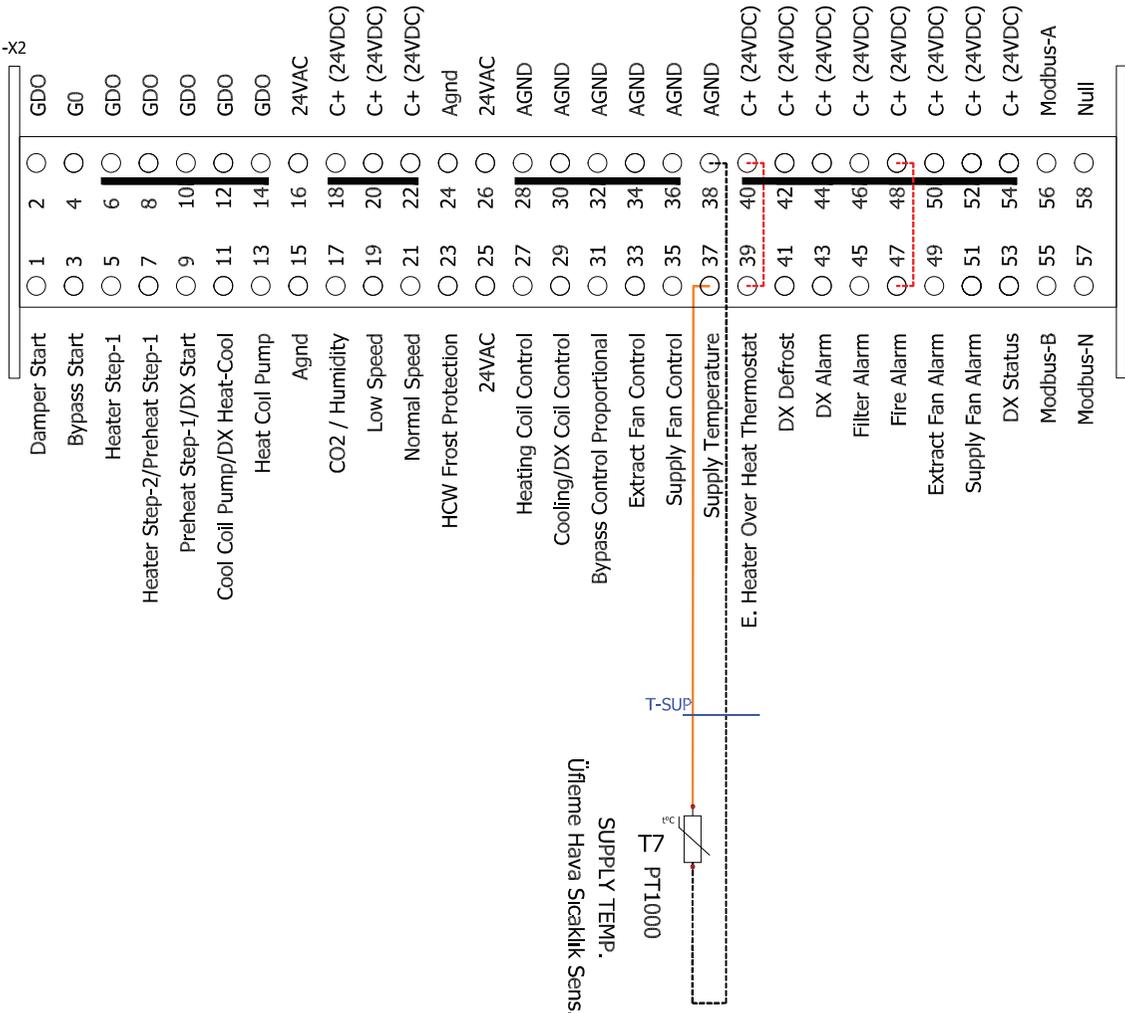
Temperature Sensors Connections

TEMPERATURE SENSORS
SICAKLIK SENSÖRLERİ



*EXHAUST TEMP. SENSOR is optional
*Egzoz Sıcaklık Sensörü opsiyoneldir

Default Terminal Order



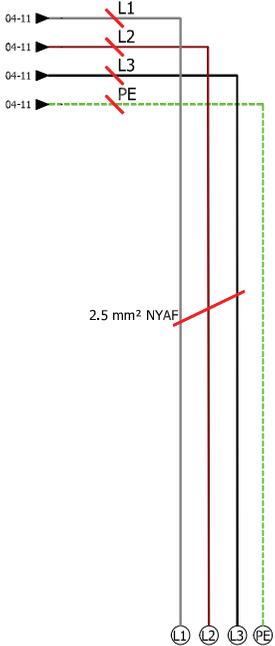
Junction Box Terminal Order

JUNCTION BOX BUAT

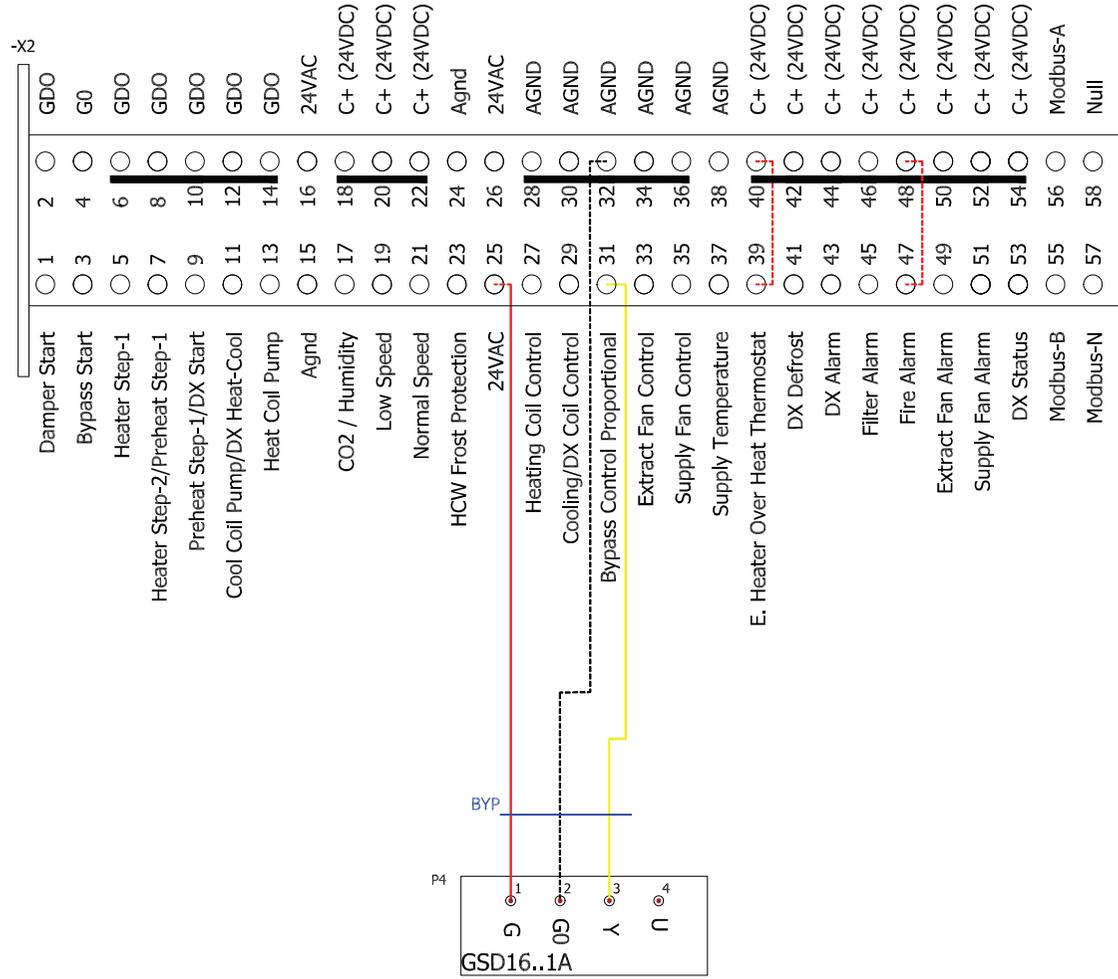
	5	6	
HEATER STEP-1	<input type="radio"/>	<input checked="" type="radio"/>	GDO
HEATER STEP-2/PREHEAT STEP-1	<input type="radio"/>	<input type="radio"/>	GDO
PREHEAT STEP-1/DX START	<input type="radio"/>	<input type="radio"/>	GDO
COOL COIL PUMP/DX HEAT-COOL	<input type="radio"/>	<input type="radio"/>	GDO
HEAT COIL PUMP	<input type="radio"/>	<input type="radio"/>	GDO
24VAC	<input type="radio"/>	<input type="radio"/>	24VAC
HEATING COIL CONTROL	<input type="radio"/>	<input checked="" type="radio"/>	Agnd
COOLING/DX COIL CONTROL	<input type="radio"/>	<input type="radio"/>	Agnd
HCW FROST PROTECTION	<input type="radio"/>	<input type="radio"/>	Agnd
LOW SPEED	<input type="radio"/>	<input type="radio"/>	C+ (24VDC)
NORMAL SPEED	<input type="radio"/>	<input type="radio"/>	C+ (24VDC)
E.HEATER OVER HEAT ALARM	<input checked="" type="radio"/>	<input type="radio"/>	C+ (24VDC)
DX DEFROST	<input type="radio"/>	<input type="radio"/>	C+ (24VDC)
DX ALARM	<input type="radio"/>	<input type="radio"/>	C+ (24VDC)
FIRE ALARM	<input checked="" type="radio"/>	<input type="radio"/>	C+ (24VDC)
DX STATUS	<input type="radio"/>	<input type="radio"/>	C+ (24VDC)
MODBUS-B	<input type="radio"/>	<input type="radio"/>	MODBUS-A
MODBUS-N	<input type="radio"/>	<input type="radio"/>	Null

ACCESSORIES AND OPTIONAL CONFIGURATIONS

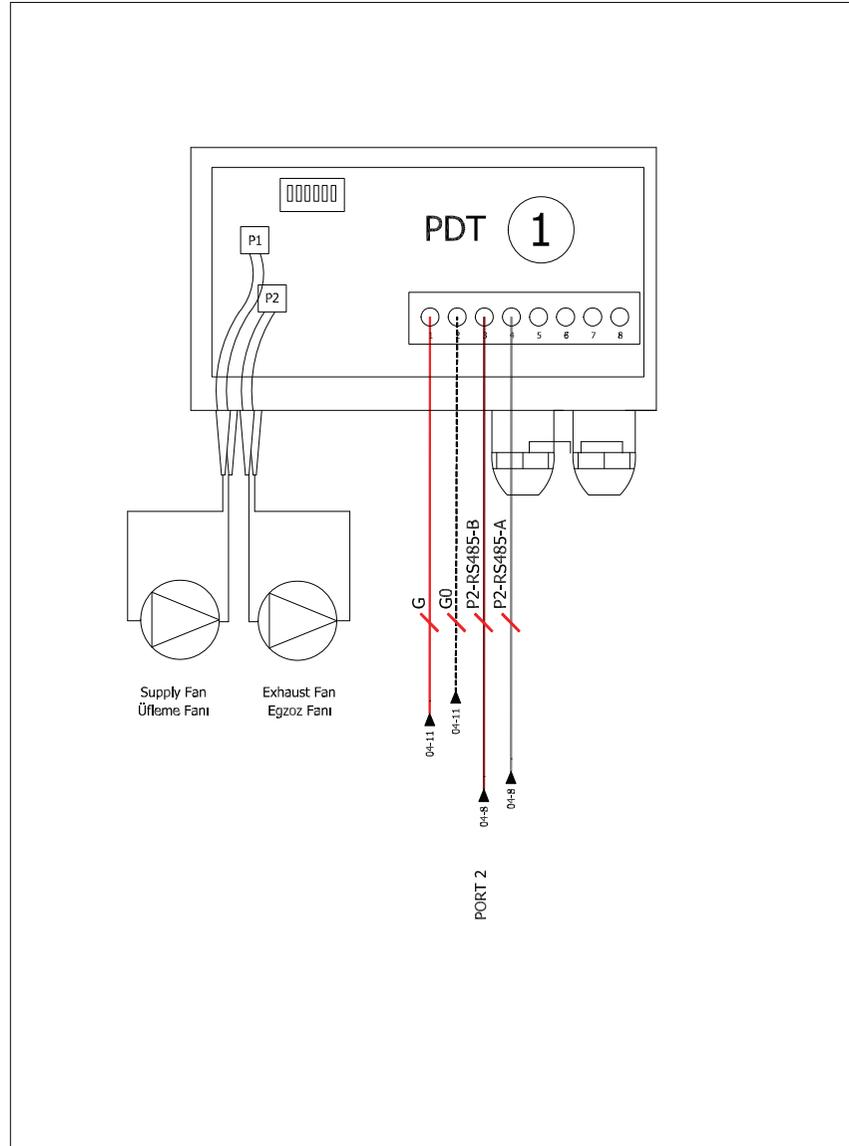
Preheater Power Connection



Bypass Proportional Control

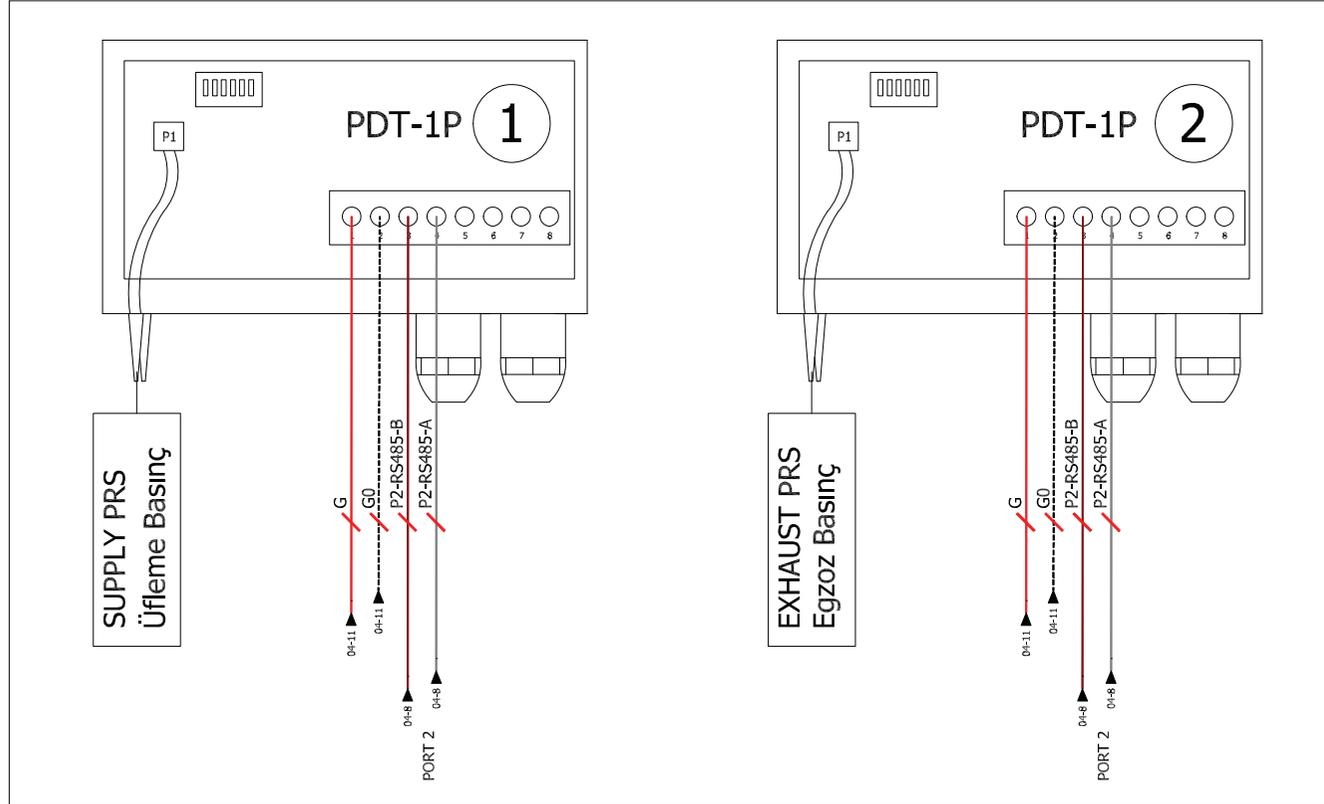


Air Flow Control Function



Note: Flow control is optional feature
Not: Debi kontrolü opsiyoneldir.

Constant Pressure Function



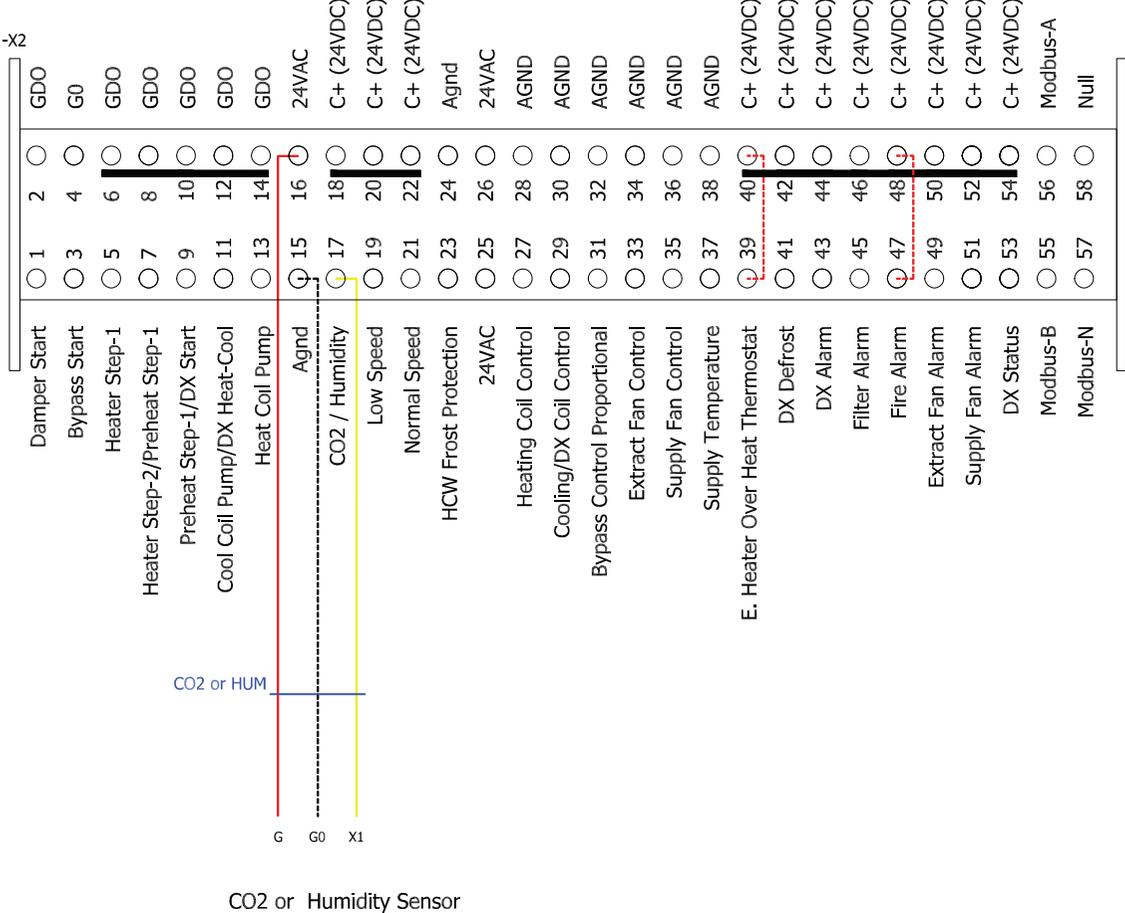
Note:

When this function is used, the flow control function is canceled.
The flow control connections in Port 2 must be removed and replaced with pressure control connections.

Not:

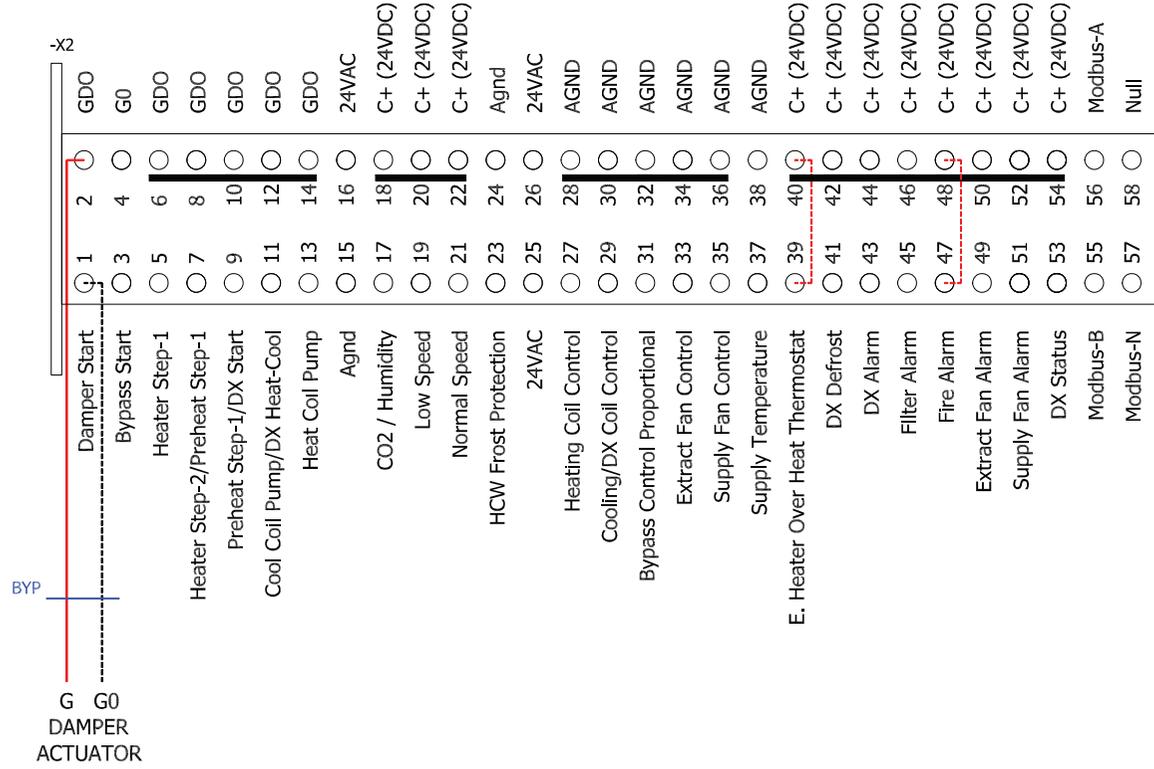
Bu fonksiyon kullanıldığında debi kontrol fonksiyonu iptal edilir.
Port 2'deki akış kontrol bağlantıları çıkarılmalı ve basınç kontrol bağlantıları ile değiştirilmelidir.

CO2 or Humidity



Note: CO2 and HUM sensors are optional.
 Not: CO2 ve Nem sensörleri opsiyoneldir

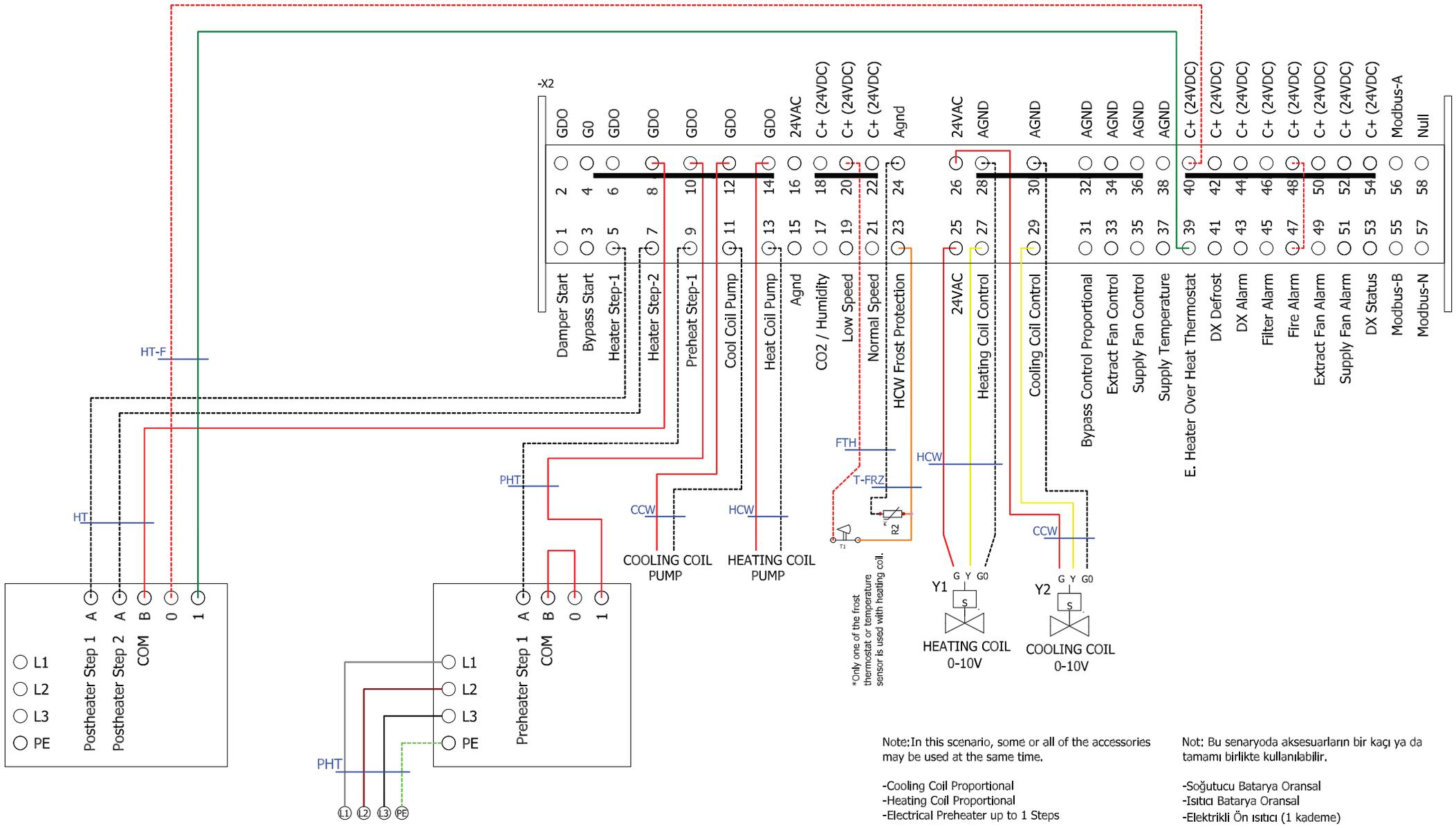
Damper Actuator



Note: Outlet Dampers are optional
Check the Fan Connections Page for damper switches

Not: Dış Damperler opsiyoneldir
Damper açık anahtarları için Fan Bağlantıları sayfasını kontrol edin

HCW/CCW/PHTR/HTR



*Only one of the frost thermostat or temperature sensor is used with heating coil.

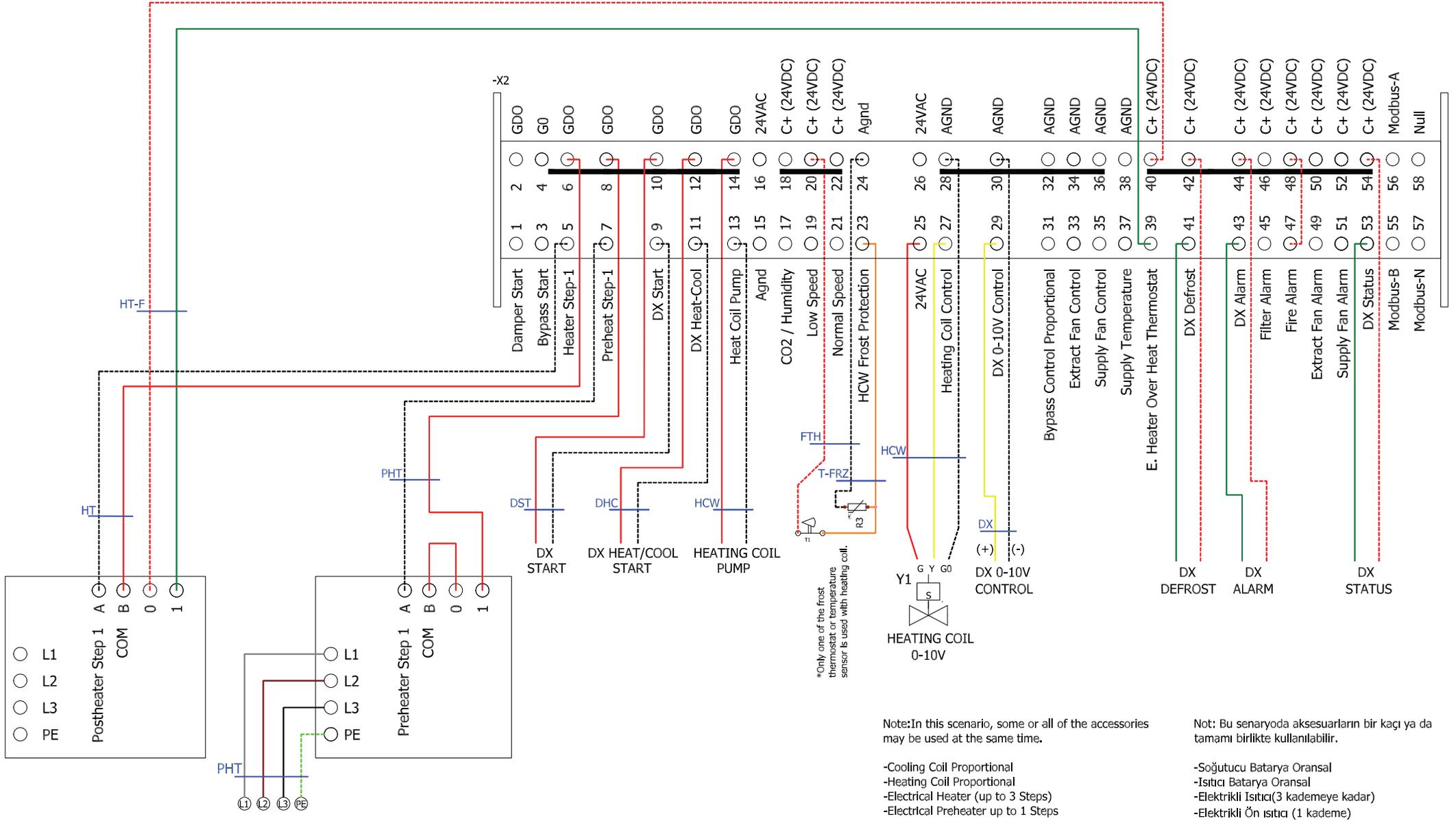
Note: In this scenario, some or all of the accessories may be used at the same time.

- Cooling Coil Proportional
- Heating Coil Proportional
- Electrical Preheater up to 1 Steps

Not: Bu senaryoda aksesuarların bir kaçı ya da tamamı birlikte kullanılabilir.

- Soğutucu Batarya Oransal
- Isıtıcı Batarya Oransal
- Elektrikli Ön ısıtıcı (1 kademe)

HCW/DX/PHTR/HTR



Note: In this scenario, some or all of the accessories may be used at the same time.

- Cooling Coil Proportional
- Heating Coil Proportional
- Elektrikli Isıtıcı (3 kademeye kadar)
- Elektrikli Ön ısıtıcı (1 kademe)

Not: Bu senaryoda aksesuarların bir kaçını ya da tamamını birlikte kullanılabılır.

- Soğutucu Batarya Oransal
- Isıtıcı Batarya Oransal
- Elektrikli Isıtıcı (3 kademeye kadar)
- Elektrikli Ön ısıtıcı (1 kademe)