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SECTION CONTENTS

Technical Data 204

Parts Information 205
- Door Assembly 205
- Recessed Door Assembly 206
- Directional Panel Assembly 207
- Pressure Box Assembly 208

Wiring and Ladder Diagrams 209
- 208-240V 3PH 50/60 Hz Wiring 209
- 208-240V 3PH 50/60 Hz Ladder 210
- 440-480V 3PH 50/60 Hz Wiring 211
- 440-480V 3PH 50/60 Hz Ladder 212
- 380-415V 3PH 50 Hz Wiring 213
- 380-415V 3PH 50 Hz Ladder 214
- 208-240V 1PH 50/60 Hz Wiring 215
- 208-240V 1PH 50/60 Hz Ladder 216

Return to Main Table of Contents 3

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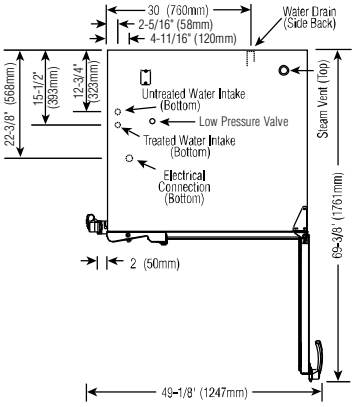
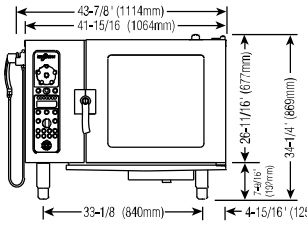
ALTO SHAAM COMBITHERM

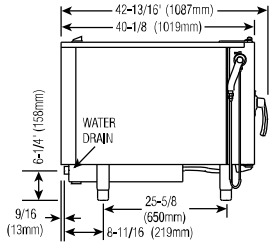
7•14 ESI SPECIFICATIONS



TOP VIEW



FRONT VIEW



SIDE VIEW

INSTALLATION REQUIREMENTS

Oven must be installed level.
Hood installation is required.
Water supply shut-off valve and back-flow preventer.

DIMENSIONS: H x W x D

EXTERIOR:
34-1/4" x 43-7/8" x 42-13/16" (869mm x 1114mm x 1087mm)

EXTERIOR WITH RETRACTABLE DOOR:
34-1/4" x 47-7/8" x 42-13/16" (869mm x 1216mm x 1087mm)

INTERIOR:
20-5/16" x 23-1/2" x 28-7/16" (515mm x 596mm x 722mm)

WATER REQUIREMENTS

TWO (2) COLD WATER INLETS - DRINKING QUALITY

ONE (1) TREATED WATER INLET: 3/4" NPT*
ONE (1) UNTREATED WATER INLET: 3/4" NPT*
LINE PRESSURE: 30 to 90 psi 2.8 to 6.2 bar

WATER DRAIN: 1-1/2" CONNECTION WITH AIR GAP

* Can manifold off of one 3/4" line.

WATER QUALITY MINIMUM STANDARDS

USING A WATER SUPPLY NOT MEETING ALTO-SHAAM'S MINIMUM WATER QUALITY STANDARDS WILL VOID THIS WARRANTY. It is the responsibility of the purchaser to ensure that incoming water supply is compliant with the specifications listed through adequate treatment measures. Installation of the CombiGuard™ Water Filtration System is recommended, but this system may not address all water quality issues present.

Contaminant	Inlet Water Requirements (untreated water)
Free Chlorine	Less than 0.1 ppm (mg/L)
Hardness	Less than 3 gpg (52 ppm)
Chloride	Less than 30 ppm (mg/L)
pH	7.0 to 8.5
Alkalinity	Less than 50 ppm (mg/L)
Silica	Less than 12 ppm (mg/L)
Total Dissolved Solids (tds)	Less than 60 ppm

CLEARANCE REQUIREMENTS

LEFT: 6" (152mm) PLUS SERVICE ACCESS: 18" (457mm) RECOMMENDED
20" (508mm) FROM HEAT PRODUCING EQUIPMENT
RIGHT: 4" (102mm) TOP: 20" (508mm) FOR AIR MOVEMENT
BACK: 4" (102mm) BOTTOM: 5-1/8" (130mm) FOR LEGS

COUNTER-TOP INSTALLATIONS MUST MAINTAIN 4" (102mm) MINIMUM CLEARANCE FROM COUNTER SURFACE.

ELECTRICAL

	VOLTAGE	PHASE	CYCLE/HZ	AWG	7•14ESI AMPS	7•14ESI kW	7•14ESI/SK AMPS	7•14ESI/SK kW
208-240	at 208	1*	50/60	2 Wire plus ground	67.0	13.9	69.2	14.4
	at 240			AWG 3	77.0	18.4	79.0	18.9
208-240	at 208	3	50/60	3 Wire plus ground	38.6/ph	13.9	40.0/ph	14.4
	at 240			AWG 6	44.3/ph	18.4	45.5/ph	18.9
380-415	at 380	3	50/60	4 Wire plus ground	21.1/ph	13.9	22.0/ph	14.4
	at 415			AWG 10	25.6/ph	18.4	26.3/ph	18.9
440-480	at 440	3*	50/60	3 Wire plus ground	20.0/ph	15.4	21.0/ph	15.9
	at 480			AWG 8	22.0/ph	18.4	23.0/ph	18.9

* ELECTRICAL SERVICE CHARGE APPLIES

WEIGHT

NET	436 lb	(198 kg)
SHIP	560 lb	(254 kg)
CRATE DIMENSIONS:	42" x 50" x 46" EST.	(1067 x 1270 x 1168mm)

CAPACITY

	7•14ESI	7•14ESI/SK
FULL-SIZE PANS: 20" x 12" x 2-1/2"	Fourteen (14)	Twelve (12)
GN 1/1: 530 x 325 x 65mm	Fourteen (14)	Twelve (12)
GN 2/1: 650 x 530 x 65mm	Seven (7)	Five (5)
FULL-SIZE SHEET PANS:* 18" x 26" x 1" ON WIRE SHELVES ONLY	Seven (7)	Six (6)

168 lb (76 kg) MAXIMUM

VOLUME MAXIMUM: 105 QUARTS (133 LITERS)

*ADDITIONAL WIRE SHELVES REQUIRED FOR MAXIMUM CAPACITY

ELECTRIC COMBITHERM — INSTALLATION MANUAL #7001

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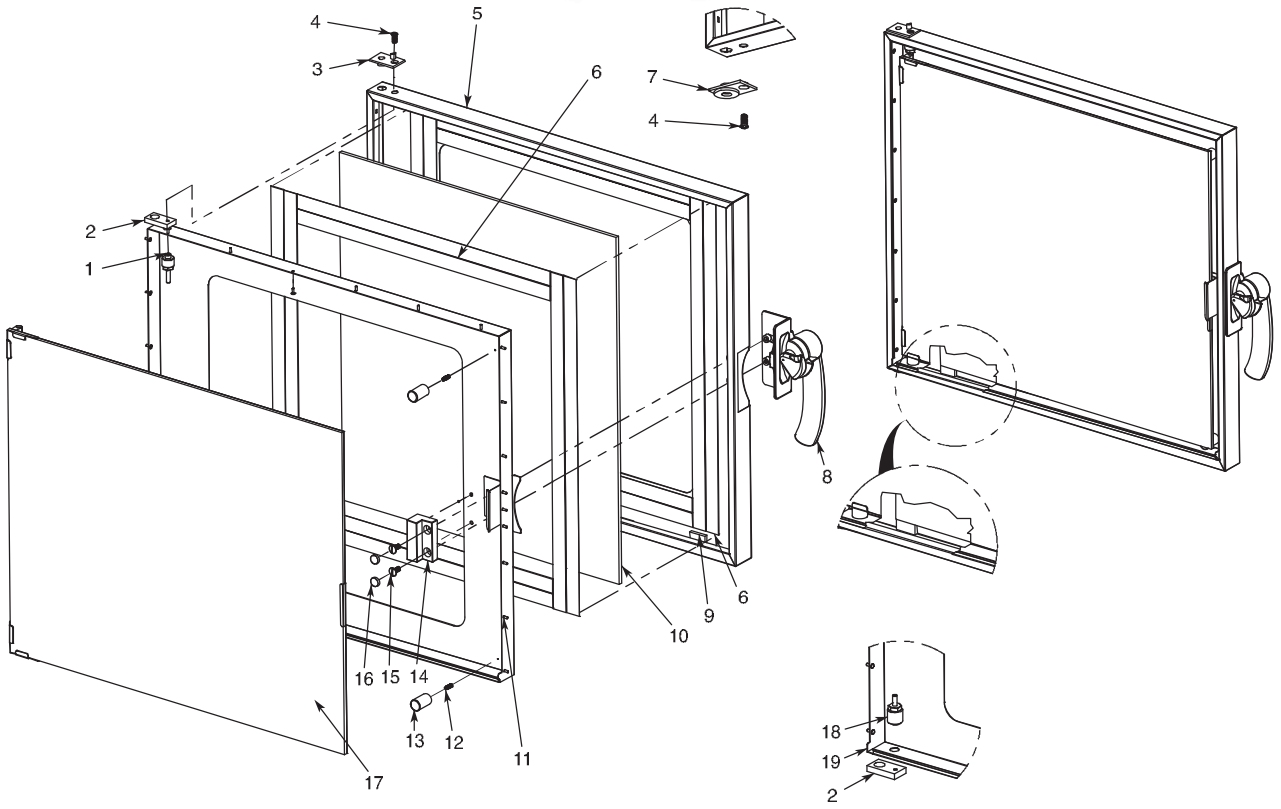
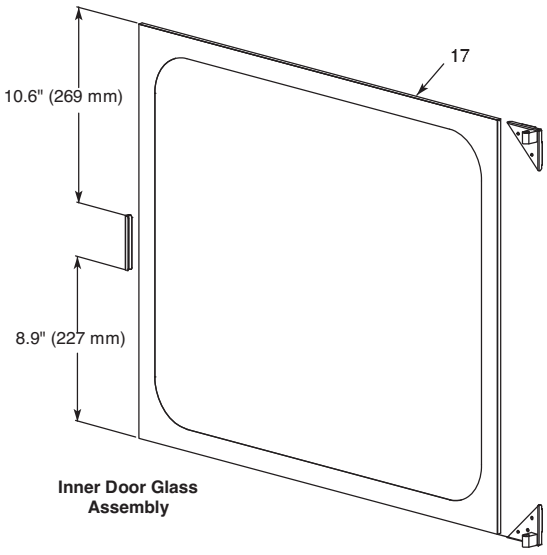
DOOR ASSEMBLY



Hinge Pin Detail



Inner Door Glass Assembly

Item	Part	Description	Qty.
1	PI-26973	Pin, Upper	1
2	HG-25078	Hinge, CT, Anchor, ML Combis	2
3	HG-25077	Hinge, CT, Top Stop, ML Combi	1
4	SC-22282	Screw, CT, 1.0X 16 mm, PH Oval, HD N/S 18-8, DIN # 966A	2
5	1005957	Outer Panel, Door	1
6	TA-25125	Tape, Double Sided	2
7	HG-25079	Hinge, CT, Upper Ratchet, Combi	1
8	HD-26966	Handle, Door, Right, Combi '06	1
9	BM-27116	Bumper	2
10	GL-27110	Glass, Outer Door, 7.14 EP	1
11	RI-27108	Rivet, Sealed	22
12	SC-25091	Screw, CT, M5X16, DIN 551, A2 S/S, SLTD Set Screw Flat PT	2
13	BM-27146	Bumper Stop/Inner Door	2
14	SP-27212	Spacer, Window Latch	1
15	SC-27125	Screw, Truss Head, S/S	2
16	PG-24789	Plug, 15 mm	2
17	5005090	Inner Door, Glass Assembly	1
18	PI-26974	Pin, Lower	1
19	5005089	Inner Door Spot RH	1
*	CL-27854	Inner Door Latch	1

*Item Not Shown

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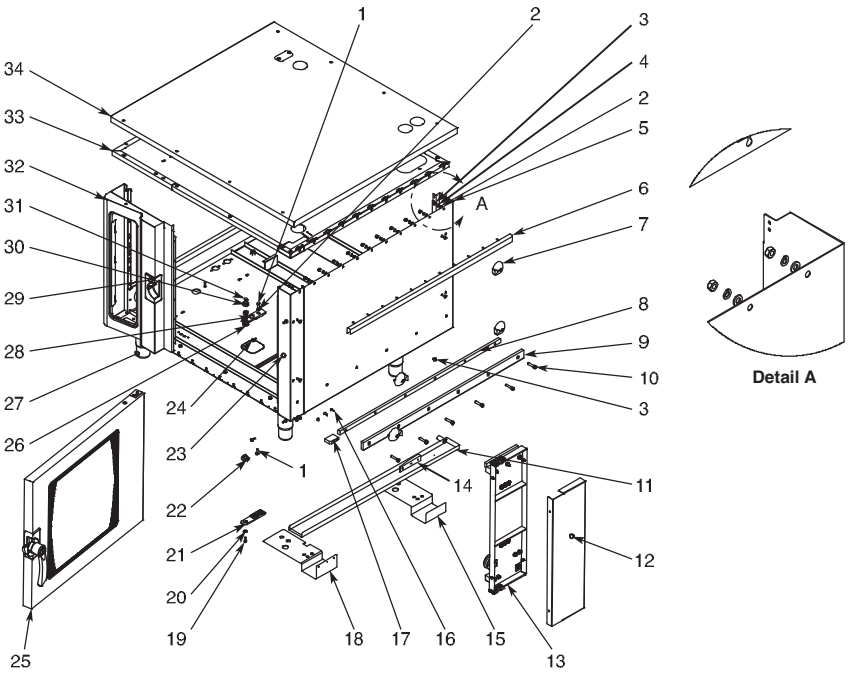
PARTS INFORMATION

RECESSED DOOR ASSEMBLY



Item	Part	Description	Qty.
1	SC-22924	M6 x 20 Hex Trim HD	2
2	WS-22297	Washer, Flat, M6, DIN 125	14
3	NU-22291	M6-1.0 x Hex S/S Nut 18-8	12
4	WS-22302	Washer, Lock, M6, DIN 127B	12
5	5008015	Right Side Assembly	1
6	5007897	Channel Assembly	1
7	BK-27412	Recessed Door Block	4
8	RA-28207	Rail, Top	1
9	RA-28208	Rail, Bottom	1
10	SC-24388	Screw, SHC M8 x 35 S/S	6
11	5007893	Drip Pan Assembly	1
12	1008869	Cover, Trolley	1
13	5008001	Trolley Assembly	1
14	BK-22100	White Teflon, Cart Guide Block	1
15	1008505	Rear Bracket, Recessed	1
16	SC-22281	Screw, M5 x 16 Flat Head CSink	2
17	BK-28252	Block, Guide	1

Item	Part	Description	Qty.
18	1008506	Front Bracket Recessed	1
19	SC-22284	Screw, M6 x 16 Hex S/S HD	1
20	WS-22298	Washer, M8, 18-8	1
21	HG-28040	Hinge	1
22	HG-25101	Hinge, Lower Ratchet	1
23	5008014	Front Corner Assembly	1
24	SC-26060	M5 x 16 Hex Head	4
25	5008004	Door Assembly Recessed	1
26	WS-25124	Eccesntric Washer	1
27	LG-26867	Legs, Combi	4
28	HG-28041	Hinge	1
29	LT-26968	Latch, Door, Right	1
30	WS-25127	Covering Washer, For Hinge	1
31	PG-25132	M12, (Black or Natural)	1
32	PE-27559	Front Panel Weld Assembly	1
33	5005065	Fill In Cover Assembly	1
34	5007895	Outer Cover Assembly	1

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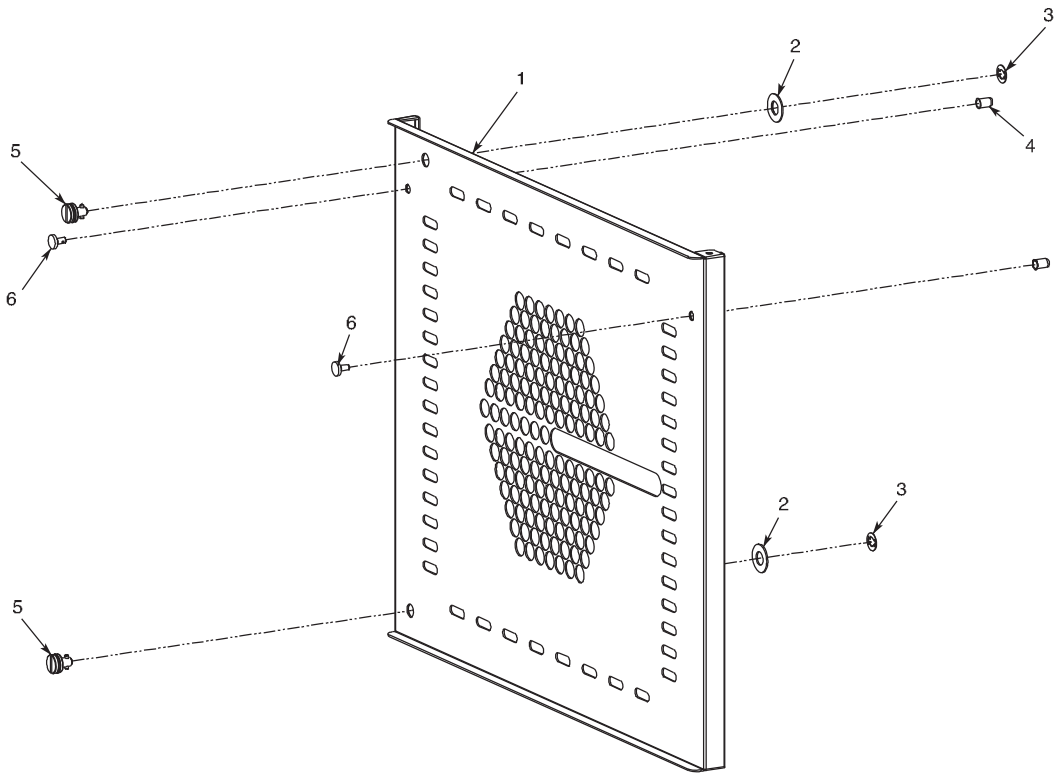
DIRECTIONAL PANEL ASSEMBLY



Item	Part	Description	Qty.
1	1006361	Directional Panel, 7.14 I	1
2	1006601	Directional Panel Spacer, 16 GA	2
3	WS-24090	Holding (Lock Clip), All Combitherm's ML	2
4	NU-22770	Nut, Threaded Insert, M6	2
5	CL-24089	Clip, CT, ML, Lock, W/3 Washers	2
6	SC-22753	Screw, SS Round, Hanging Rack	2

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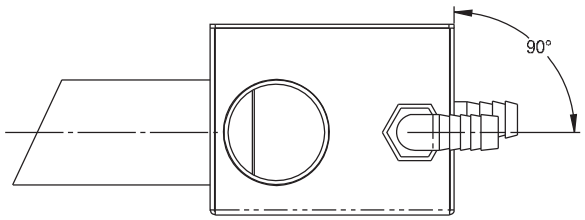
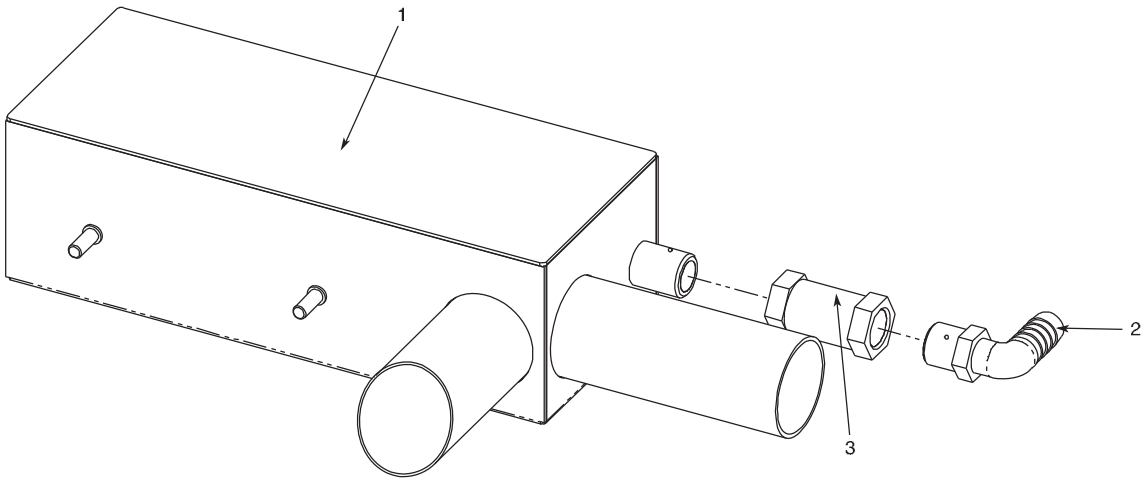
PARTS INFORMATION

PRESSURE BOX ASSEMBLY





Item	Part	Description	Qty.
1	5005009	Pressure Box	1
2	EB-25551	Elbow, Nylon, 1/2" x 3/8"	1
3	VA-25549	Valve, 3/8", Flow Control, 0.12 GPM	1

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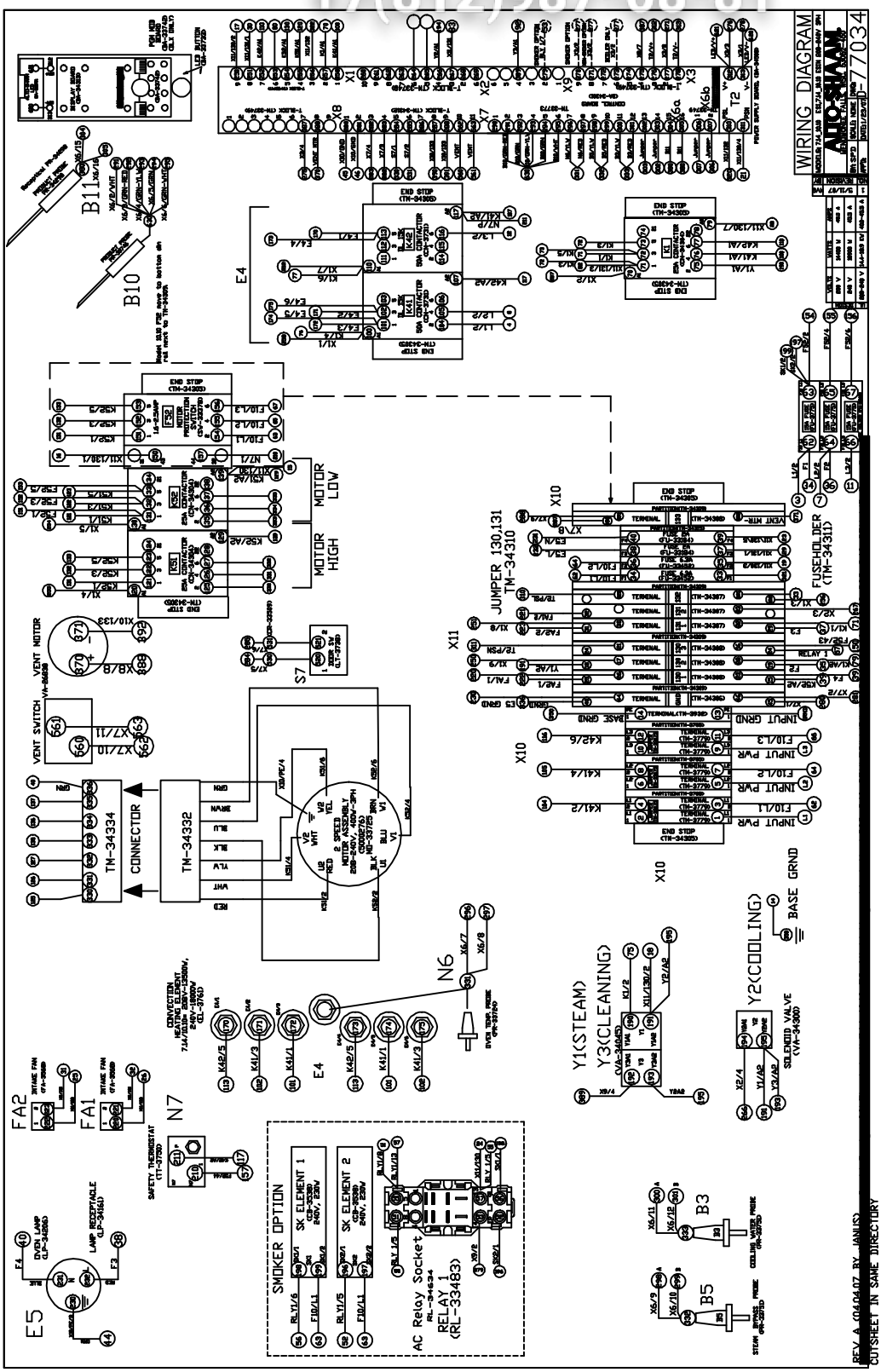

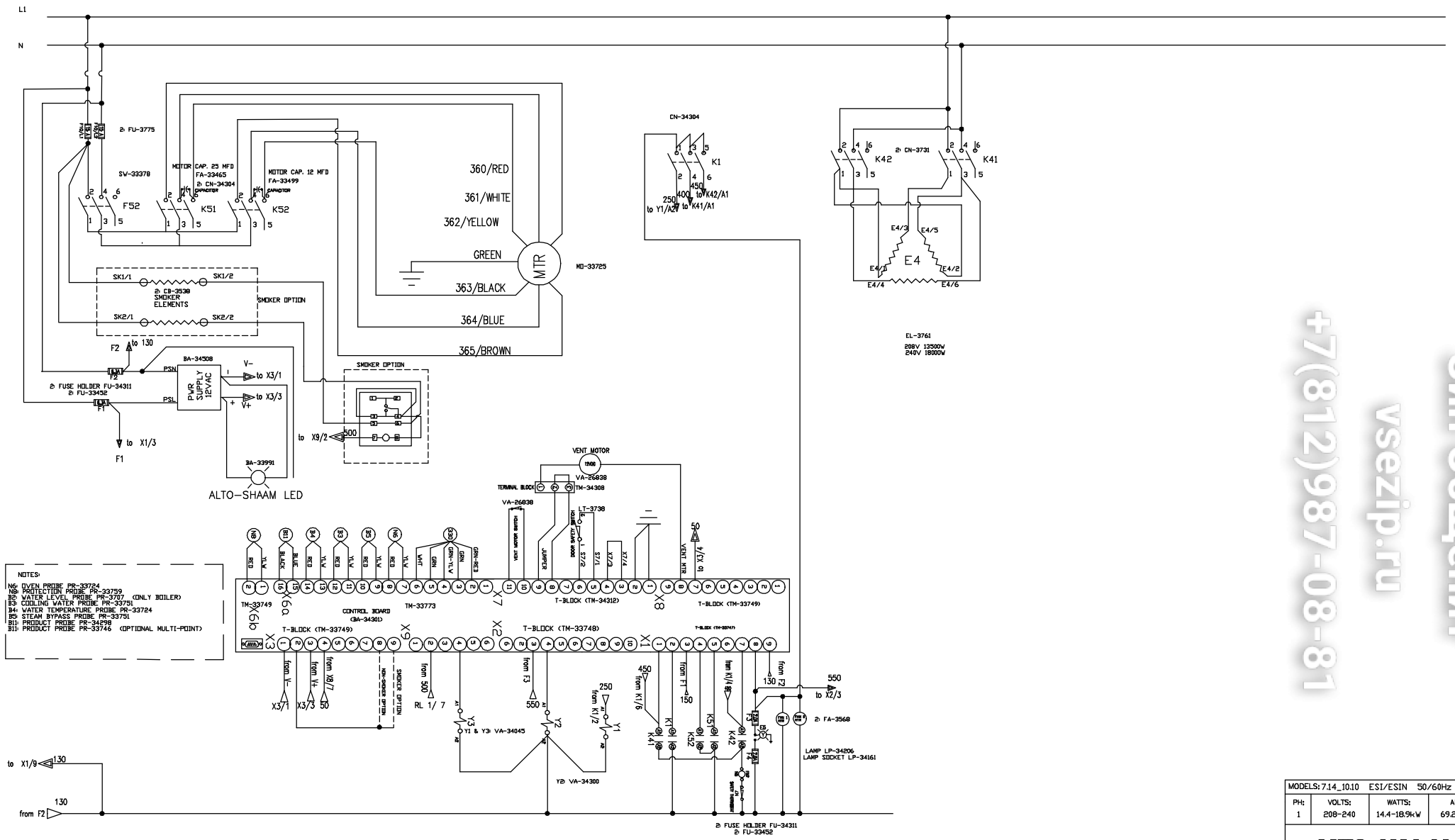

MODELS: 7.14_10.10 ESI/ESIN 50/60Hz			
PH:	VOLTS:	WATTS:	AMPS:
1	208-240	14.4-18.9kW	69.2-79.0A

ALTO-SHAAM
MENOMONEE FALLS, WISC. 53052-450

BY: MVQ	SCALE:	DWG: D-77035
APP'D:	DATE: 7/20/07	

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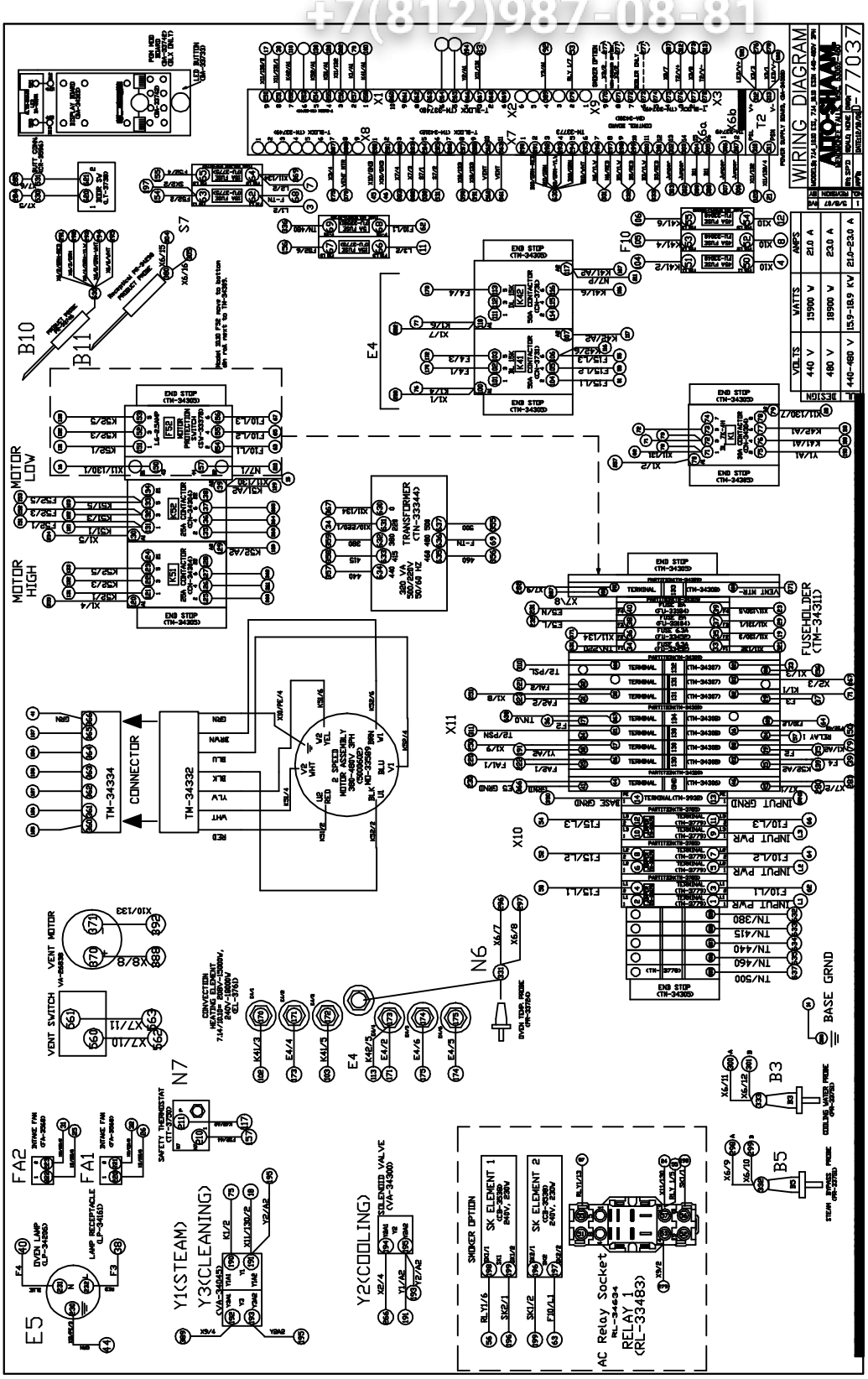

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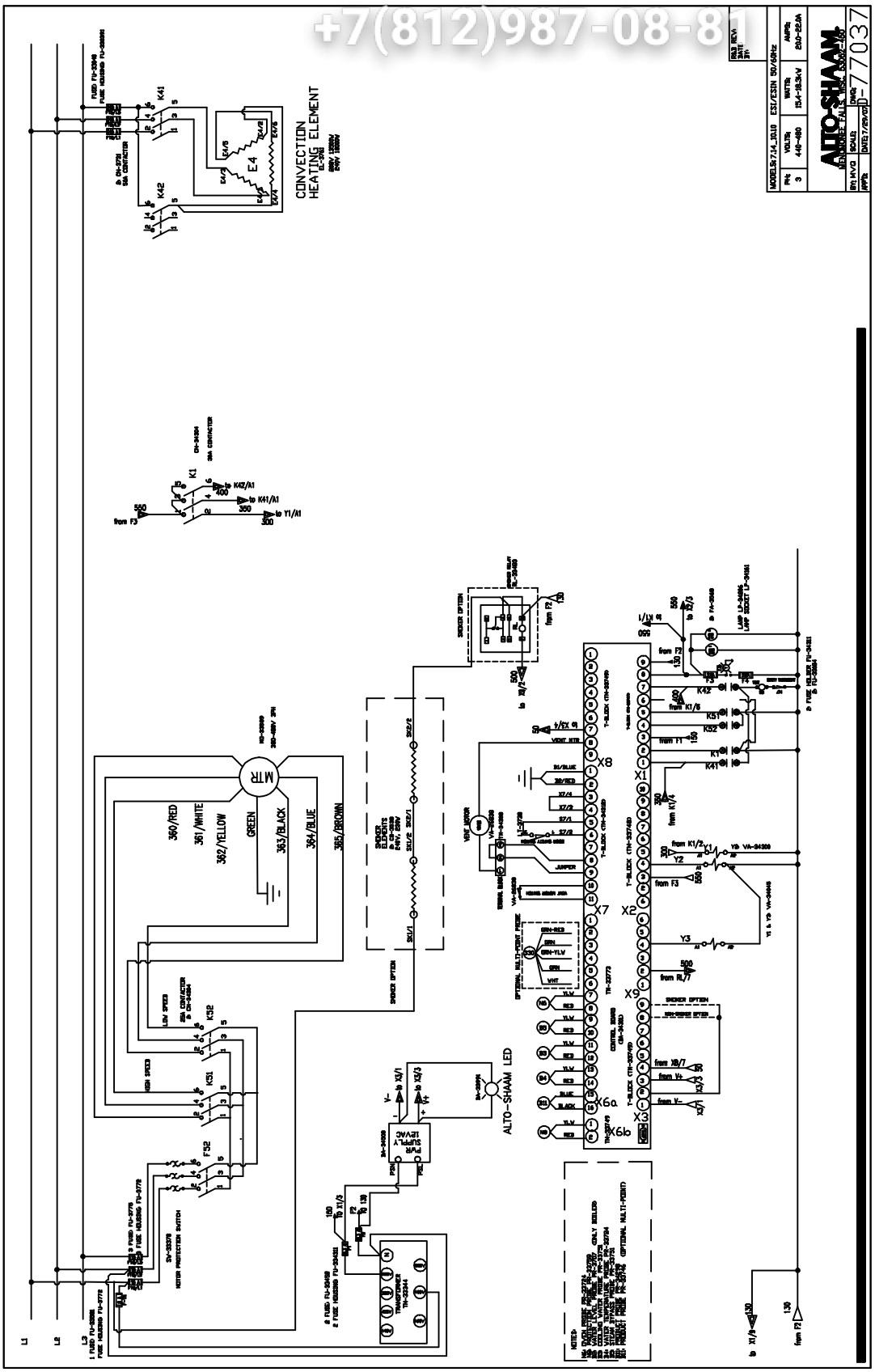

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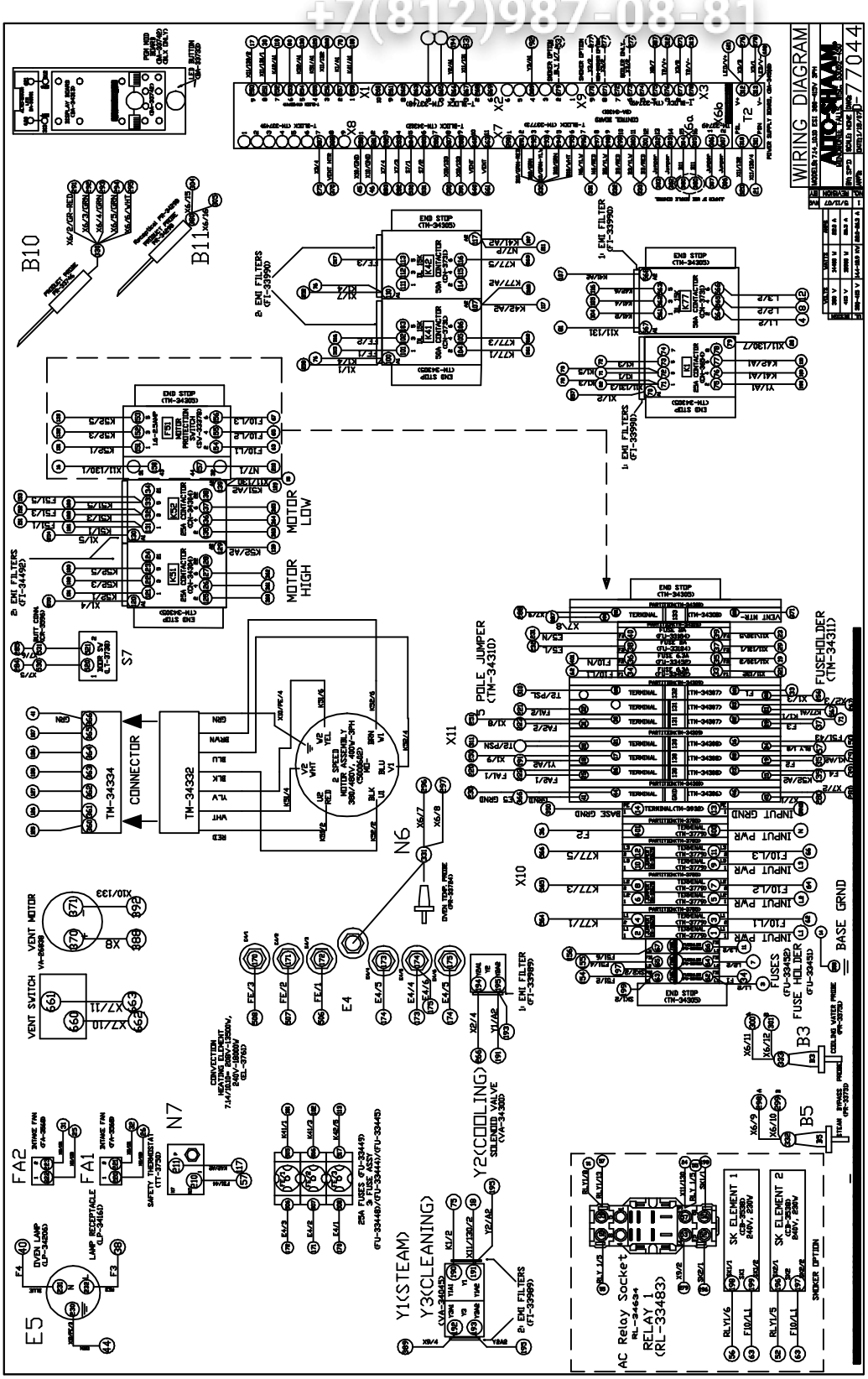

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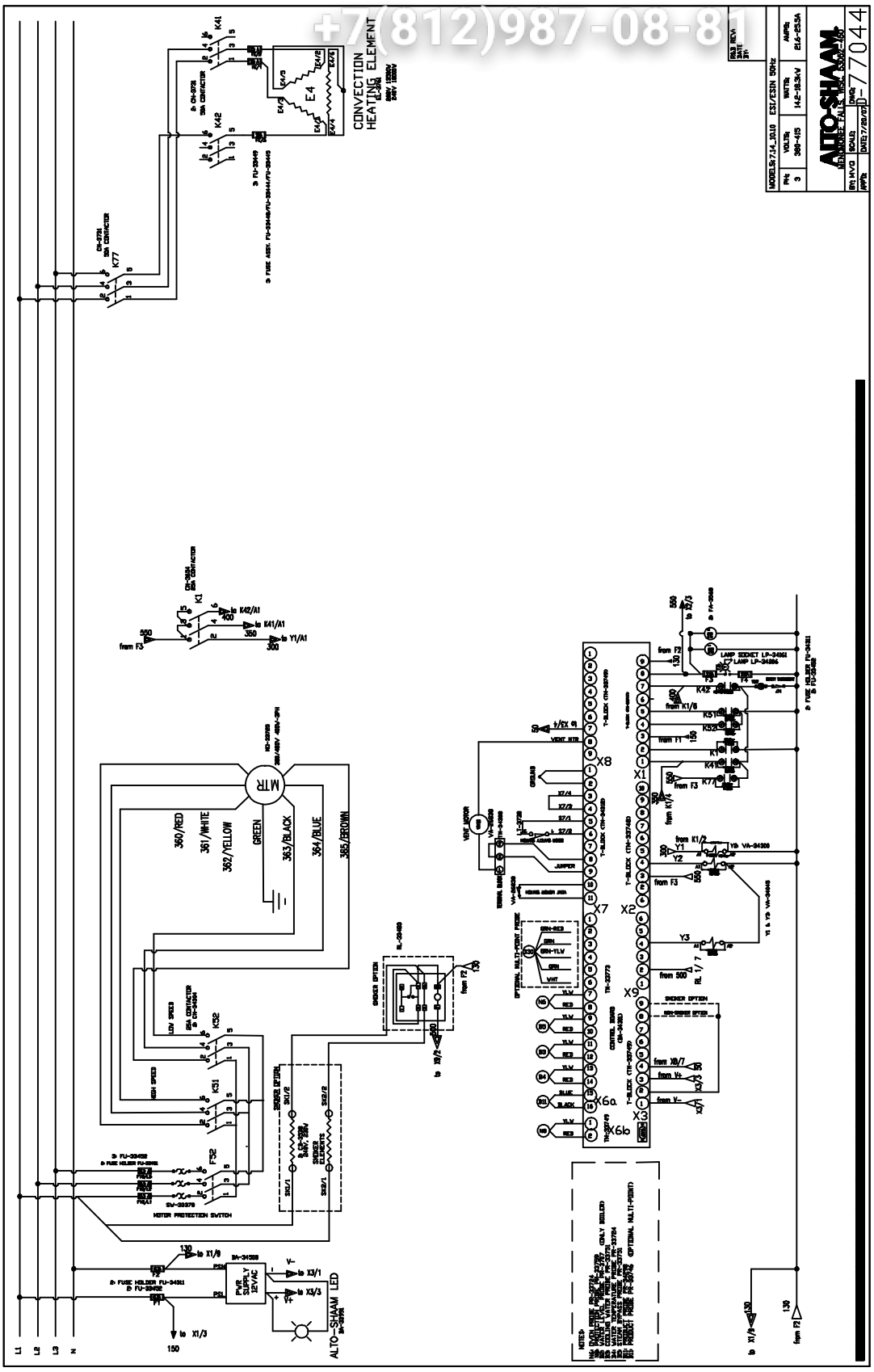

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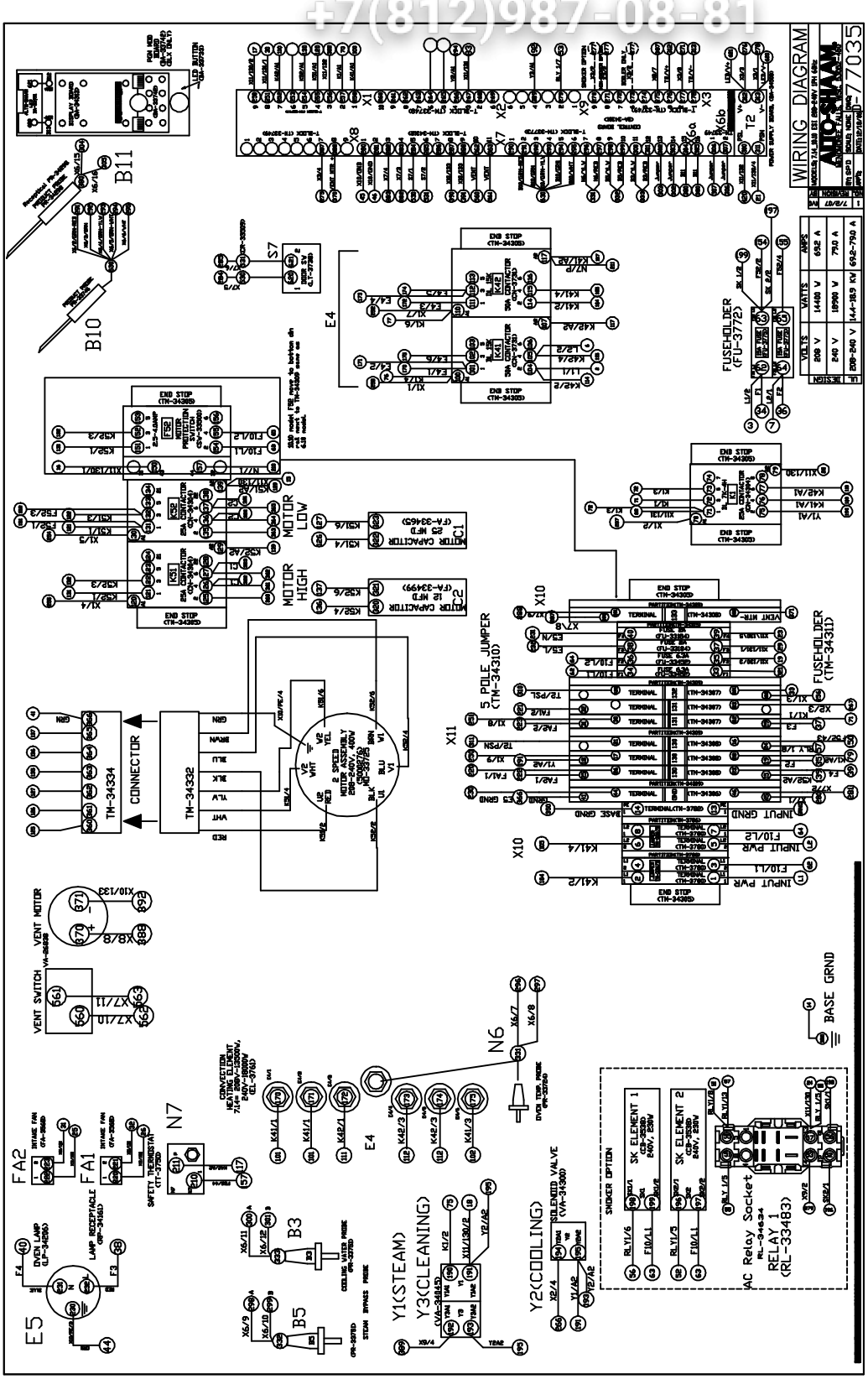

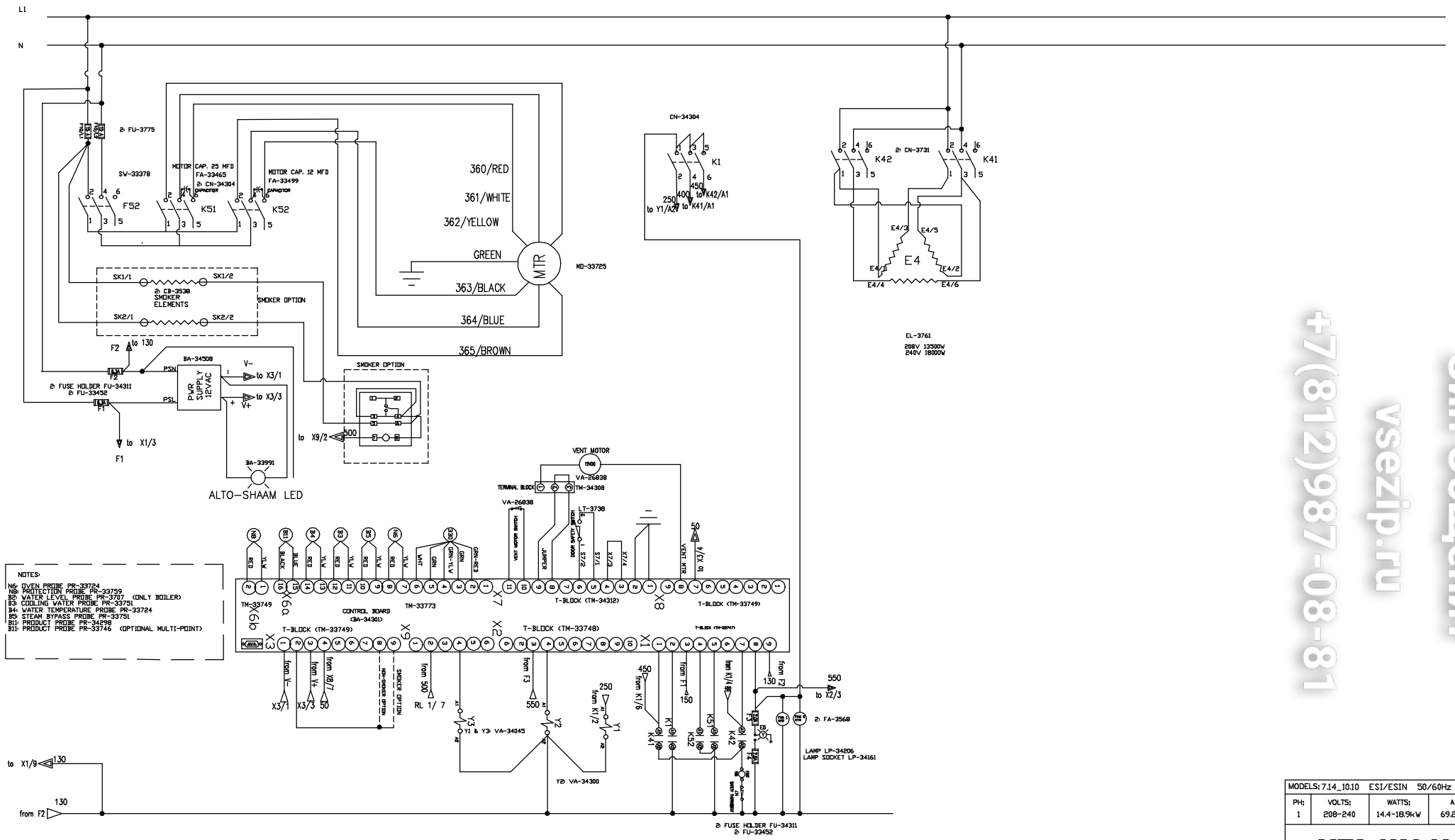

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