

Overview

Weil Pump Company offers a full range of control panels that ensure reliable system operation. Panel offerings include electromechanical, PLC, and VFD constructions. Weil's control panels can be custom engineered for any job. Weil Pump designs, builds, and wires all of its control panels at its factory, in its UL 508a panel shop.

Simplex

Features	8105G	8109	8110	8111	8112	8114	8115	8117	8125	8126	8145	8148	8153	8164	8176	8177	8191
Phase	1 or 3	1	1 or 3	1 or 3	1	1 or 3	1 or 3	1 or 3	1	3	3	1 or 3	1 or 3	1 or 3	1	1 or 3	1 or 3
Enclosure Type	4	4X	4X	4X	1	4X	1	4 DDDF	4 DDDF	4X	3R	3R	1, 4X	4 DDDF	4X	4X	7
Enclosure Construction	Steel	GRP	GRP	GRP	ABS	GRP	Steel	Steel	PC	PC	Steel	Steel	Steel GRP	Steel	PC	PC	Aluminum
Enclosure size (inches)	24 x 22	10 x 8	12 x 10	14 x 12	7 x 4-1/2	10 x 8	20 x 12	20 x 20	20 x 20	10 x 7	22 x 14	20 x 16	20 x 16	24 x 24	10 x 8	12 x 10	30 x 28
1 Phase - 115V	X	X	X	X	X	-	X	X	X	-	-	X	X	X	X	X	X
1 Phase - 208-230V	X	X	X	X	-	X	X	X	X	-	-	X	X	X	X	X	X
3 Phase - 208-230V	X	-	X	X	-	X	X	X	-	X	X	X	X	X	-	X	X
3 Phase - 460V	X	-	X	X	-	-	X	X	-	X	X	X	X	X	-	X	X
Motor - Protector - Max. Amps	25	None	32	25	None	None	25	25	25	25	25	50	40	40	None	32	25
Extended Max Amps	X	-	-	X	-	-	-	X	-	-	-	X	X	X	-	-	X
Disconnect - Panel	X	-	-	-	-	-	X	X	-	-	-	X	X	X	Opt	Opt	X
Disconnect - Pump	X	-	-	X	-	-	X	X	X	X	-	X	X	X	-	-	X
U/L Label	X	X	X	X	-	-	X	X	-	-	X	X	X	X	X	X	X
Control Transformer	X	X	X	X	-	-	X	X	-	-	X	X	X	X	-	X	X
Pump Test-Off-Auto Selector Switch	X	X	X	X	-	-	X	X	X	X	-	X	X	X	X	X	X
Power to Pump Light - Green	X	X	X	X	-	-	X	X	X	X	-	X	X	X	X	X	X
Motor Overload Light - Red	X	-	-	X	-	-	-	X	-	-	-	X	Opt	X	-	-	X
Power to Panel Light	Amber	X	White	Amber	Green	Amber	Amber	Amber	-	-	-	White	White	White	Green	Green	X
HWA Horn 95 dB	X	X	X	X	-	-	X	X	-	-	-	X	X	X	X	X	-
HWA Red Light	X	-	X	X	-	-	X	X	-	-	-	X	X	X	X	X	X
HWA Isolated Contacts	X	-	2	X	-	-	X	X	-	-	-	X	X	2	X	X	X
HWA Test-Auto-Silence Switch	X	X	-	X	-	-	X	X	-	-	-	X	X	X	X	X	-
Hour Meter	-	-	-	X	-	-	-	X	-	-	-	X	Opt	X	Opt	Opt	-
Moisture Sensor Circuit	Opt	-	-	Opt	-	-	-	Opt	-	-	-	X	Opt	X	-	Opt	X
Temperature Limiter Circuit	Opt	-	-	Opt	-	-	-	Opt	-	-	-	X	Opt	X	-	X	X
Intrinsically Safe Relay - Level Control	Opt	-	-	-	-	-	-	-	-	-	-	Opt	Opt	X	-	-	X
Pump Run Isolated Contacts	X	X	X	X	-	-	X	X	-	-	-	X	X	X	Opt	X	X
Notes												MS/TL		Intrinsically Safe	Oil Smart	Oil Smart	Explosion Proof

X = Included as Standard Feature

Opt = Available option at extra cost

Duplex

Features	8101E	8101G	8131	8136	8138	8149	8150	8151	8155	8158	8159	8162	8165	8167	8168	8178	8192
Phase	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3
Enclosure Type	4 DDDDF	4	4X	4X	4X	3R	4X	1, 4X	1	1	4X	4 DDDDF	4 DDDDF	4 DDDDF	4X DDDDF	4X	7
Enclosure Construction	Steel	Steel	GRP	GRP	GRP	Steel	GRP	Steel, GRP	Steel	Steel	GRP	Steel	Steel	Steel	Stainless Steel	PC	Aluminum
Enclosure size (inches)	24 x 24	30 x 24	14 x 12	14 x 12	20 x 16	24 x 20	24 x 24	24 x 20 24 x 24	20 x 12	20 x 12	14 x 12	20 x 20	24 x 24	20 x 20	20 x 20	14 x 12	30 x 24
1 Phase - 115V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1 Phase - 208-230V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3 Phase - 208-230V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3 Phase - 460V	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Motor - Protector - Max. Amps	25	25	-	25	25	50	50	40	25	25	25	25	40	25	25	32	25
Extended Max Amps	X	X	-	-	X	-	-	X	-	-	-	X	X	X	X	-	X
Disconnect - Panel	One	Two	-	-	One	One	One	One	One	One	-	One	One	One	One	Opt	One
Disconnect - Pump	Two	Two	-	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	-	Two
U/L Label	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Control Transformer	Two	Two	One	One	One	One	One	One	One	One	One	One	One	One	One	X	One
Pump Test-Off-Auto Selector Switch	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Power to Pump Light - Green	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two
Motor Overload Light - Red	Two	Two	-	-	-	Two	Two	-	-	-	Two	Two	Two	Two	Two	Two	Two
Power to Panel Light - Amber	Two	Two	One	One	One	-	-	One	-	-	One	One	One	One	One	One	One
HWA Horn 95 dB	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
HWA Red Light	X	X	X	X	X	X	X	X	Opt	Opt	X	X	X	X	X	X	X
HWA Isolated Contacts	Two	Two	Two	Two	Two	Two	One	Two	Two	One	One	Two	Two	Two	Two	One	Two
HWA Test-Auto-Silence Switch	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-
Hour Meter	Two	-	-	-	-	Two	Two	Opt	-	-	Two	Two	Two	Two	Two	Opt	-
Moisture Sensor Circuit	Opt	Opt	-	-	-	Two	Two	Opt	-	-	Two	Two	Two	Two	Two	Opt	-
Temperature Limiter Circuit	Opt	Opt	-	-	-	Two	Two	Opt	-	-	-	X	X	-	Opt	X	X
Intrinsically Safe Relay - Level Control	-	-	-	-	-	-	X	Opt	-	-	-	-	X	-	-	-	X
Pump Run Isolated Contacts	Two	Two	Two	Two	Two	Two	Two	Two	Two	Two	-	Two	Two	Two	Two	X	Two
Notes	Two Control Circuits	Two Control Circuits							No Alternator			Moisture Sensor & Temp Limiter	Intrinsically Safe		Stainless Steel	Oil Smart	Explosion Proof

X = Included as Standard Feature

Opt = Available option at extra cost





PLC and PLC/VFD

Features	8127P	8136P	8138P	8162P	8165P	8167P	8193	8193V	8194	8194V	8195	8195V	8196	8196V	8197	8198
Configuration	Simplex	Duplex	Duplex	Duplex	Duplex	Duplex	Simplex	Simplex	Duplex	Duplex	Triplex	Triplex	Quadplex	Quadplex	Simplex	Duplex
HMI size	4.3"	4.3"	4.3"	4.3"	4.3"	4.3"	7.0"	7.0"	7.0"	7.0"	7.0"	7.0"	7.0"	7.0"	4.3"	4.3"
VFD (1 per motor)	-	-	-	-	-	-	-	X	-	X	-	X	-	X	-	-
Phase	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	1 or 3	3	1 or 3	1 or 3
Enclosure Type	4X	4X	4X	4 DDDF	4 DDDF	4 DDDF	4X	4X	4X	4	4X	4X	4X	4X	3R	3R
Enclosure Construction	GRP	GRP	GRP	Steel	Steel	Steel	GRP	GRP	GRP	Steel	GRP	GRP	GRP	GRP	Steel	Steel
Enclosure Size (inches)	14 x 12	14 x 12	20 x 16	20 x 16	20 x 16	20 x 16	20 x 16	30 x 24	20 x 16	30 x 24	20 x 16	36 x 30	20 x 16	30 x 42	20 x 16	20 x 16
1 Phase - 115V	X	X	X	X	X	X	X	-	X	-	X	X	X	-	X	X
1 Phase - 208-230V	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X
3 Phase - 208-230V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3 Phase - 460V	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Motor - Protector - Max. Amps	32	32	40	40	40	40	50	50	50	50	50	50	50	50	50	50
Extended Max Amps	-	-	-	-	-	-	X	-	X	-	X	-	X	-	-	-
Disconnect - Panel	X	-	One	One	One	One	One	One	One	One	One	One	One	One	One	One
Disconnect - Pump	One	Two	Two	Two	Two	Two	One	One	Two	Two	Three	Three	Four	Four	One	Two
U/L Label	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Electric Alternator	-	Equ	Equ	Equ	Equ	Equ	-	-	Equ	Equ	Equ	Equ	Equ	Equ	-	Equ
Control Transformer	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ
Pump Test-Off-Auto Selector Switch	X	X	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ
Power to Pump Light - Green	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ
Motor Overload Light - Red	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ
Power to Panel Light - Amber	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ
HWA Horn 95 dB	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HWA Red Light	Equ	Equ	Equ	Equ	Equ	Equ	Equ	X	Equ	X	Equ	X	Equ	X	Equ	Equ
HWA Test-Auto-Silence Switch	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ	Equ
Hour Meter	X	X	Equ	Equ	Equ	Equ	Equ	X	Equ	X	Equ	Equ	Equ	X	Equ	Equ
Moisture Sensor Circuit	-	-	-	X	X	-	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Temperature Limiter Circuit	-	-	-	X	X	-	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Intrinsically Safe Relay - Level Control	-	-	-	-	X	-	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Isolated Contacts - HWA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Isolated Contacts - Pump Run	X	X	Two	Two	Two	Two	One	One	Two	Two	Three	Three	Four	Four	One	Two
Notes				Moisture Sensor & Temp Limiter	Intrinsically Safe		Modbus	Modbus	Modbus	Modbus	Modbus	Modbus	Modbus	Modbus		

X = Included as Standard Feature

Opt = Available option at extra cost

Equ = Equivalent

Triplex Control Panel	Quadplex Control Panels	NEMA Enclosures																				
<p>Triplex panels provide complete alternating control of three identical pumps. Panels require four single-pole level control switches.</p> <p>An additional single-pole level control switch is required for high water alarm.</p> <p>Tamper-proof design. No operable switches on cover. Indicator lights, disconnect, switches and hour meters are on inner door.</p> <p>- VFD Panels include 1 VFD per motor</p> <p>Options include:</p> <ul style="list-style-type: none"> • Moisture sensor/temp limiter package • ISR circuit • 304SS enclosure <p>Available Models: 8183 or 8195 (PLC) or 8195V (PLC/VFD)</p>	<p>Quadplex panels provide complete sequencing for four identical pumps. Panel requires five single-pole 8220 or 8230 level control switches.</p> <p>An additional single-pole level control switch is required for high water alarm.</p> <p>Tamper-proof design. No operable switches on cover. Indicator lights, disconnect, switches and hour meters are on inner door.</p> <p>- VFD Panels include 1 VFD per motor</p> <p>Options include:</p> <ul style="list-style-type: none"> • Moisture sensor/temp limiter package • ISR circuit • 304SS enclosure <p>Available Models: 8185 or 8196 (PLC) or 8196V (PLC/VFD)</p>	<table border="1"> <thead> <tr> <th data-bbox="1325 256 1451 310">Type</th> <th data-bbox="1451 256 1969 310">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="1325 310 1451 386">1</td> <td data-bbox="1451 310 1969 386">Indoor Use Provides a degree of protection against falling dirt.</td> </tr> <tr> <td data-bbox="1325 386 1451 516">3R</td> <td data-bbox="1451 386 1969 516">Outdoor Use Provides a degree of protection against falling dirt & rain, sleet, snow, undamaged by the formation of ice on the enclosure.</td> </tr> <tr> <td data-bbox="1325 516 1451 678">4</td> <td data-bbox="1451 516 1969 678">Indoor or Outdoor Use Provides a degree of protection against falling dirt & dust, rain, splashing water, and hose directed water; undamaged by the formation of ice on the enclosure.</td> </tr> <tr> <td data-bbox="1325 678 1451 841">4X</td> <td data-bbox="1451 678 1969 841">Indoor or Outdoor Use Provides a degree of protection against falling dirt & dust, rain, splashing water, and hose directed water; protects against corrosion; undamaged by the formation of ice on the enclosure.</td> </tr> <tr> <td data-bbox="1325 841 1451 1003">6</td> <td data-bbox="1451 841 1969 1003">Indoor or Outdoor Use Provides a degree of protection against the entry of water during prolonged submersion at limited depths; protects against corrosion; undamaged by the formation of ice on the enclosure.</td> </tr> <tr> <td data-bbox="1325 1003 1451 1166">6P</td> <td data-bbox="1451 1003 1969 1166">Indoor or Outdoor Use Provides a degree of protection against the entry of water during prolonged submersion at limited depths; protects against corrosion; undamaged by the formation of ice on the enclosure.</td> </tr> <tr> <td data-bbox="1325 1166 1451 1230">7</td> <td data-bbox="1451 1166 1969 1230">For indoor use in Class 1, Groups A, B, C, or D hazardous locations.</td> </tr> <tr> <td data-bbox="1325 1230 1451 1360">12</td> <td data-bbox="1451 1230 1969 1360">Indoor Use Provides a degree of protection against dust, dirt, fiber flyings, dripping water, and external condensation of non-corrosive liquids.</td> </tr> <tr> <td colspan="2" data-bbox="1325 1360 1969 1421"><i>Source</i> NEMA Enclosure Types (November 2005)</td> </tr> </tbody> </table>	Type	Description	1	Indoor Use Provides a degree of protection against falling dirt.	3R	Outdoor Use Provides a degree of protection against falling dirt & rain, sleet, snow, undamaged by the formation of ice on the enclosure.	4	Indoor or Outdoor Use Provides a degree of protection against falling dirt & dust, rain, splashing water, and hose directed water; undamaged by the formation of ice on the enclosure.	4X	Indoor or Outdoor Use Provides a degree of protection against falling dirt & dust, rain, splashing water, and hose directed water; protects against corrosion; undamaged by the formation of ice on the enclosure.	6	Indoor or Outdoor Use Provides a degree of protection against the entry of water during prolonged submersion at limited depths; protects against corrosion; undamaged by the formation of ice on the enclosure.	6P	Indoor or Outdoor Use Provides a degree of protection against the entry of water during prolonged submersion at limited depths; protects against corrosion; undamaged by the formation of ice on the enclosure.	7	For indoor use in Class 1, Groups A, B, C, or D hazardous locations.	12	Indoor Use Provides a degree of protection against dust, dirt, fiber flyings, dripping water, and external condensation of non-corrosive liquids.	<i>Source</i> NEMA Enclosure Types (November 2005)	
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Enclosure Material																						
																						
PC - Polycarbonate	GRP - Glass Reinforced Polyester	Steel	Stainless Steel																			
NEMA Type 4X	NEMA Type 4X	NEMA Type 1, 3R, 4, 4 DDDF	NEMA Type 4X, 4X DDDF																			
<p>ABS - Acrylonitrile Butadiene Styrene - Only available with 8112 Aluminum - Only available on explosion-proof models 8191 & 8192 DDDF - Double Door Dead Front</p>																						