

# Algas-SDI™

*...Innovative liquid vaporizing and gas mixing solutions*

ISO 9001  
Certified

## XPV *Packaged Natural Gas Replacement System* *Models XPV2.5 through XPV28.0*



- Complete natural gas replacement system for commercial and small industrial natural gas users.
- Allows you to take advantage of discounted natural gas rates.
- Guarantees your fuel supply when your neighbor gets cut off.
- Combination of the ASDI POWER® XP electric vaporizer and VAPORAIRE® Venturi Air/Gas Mixer.
- Packaged, single unit saves on installation and provides maximum reliability and convenience.
- Footprint smaller than 16ft<sup>2</sup>.
- Explosion proof design means it can be installed anywhere.
- Able to make synthetic natural gas in less than one minute.
- Includes accumulator tank and venturi silencer.

# Specifications

Capacity MM BTU/Hr	XPV Model	Delivery Pressure psig (kg/cm <sup>2</sup> )	Minimum LPG Pressure psig (kg/cm <sup>2</sup> )	Estimated Shipping Weight	Est. Shipping Dimensions L x W x H	Min. Required Accumulator Tank Capacity
2.5	XPV2.5-5	4 (0.28)	28 (2.0)	800	80" x 26" x 84"	120
	XPV2.5-8	8 (0.56)	88 (6.2)	800	80" x 26" x 84"	120
5	XPV5-5	5 (0.35)	31 (2.2)	800	80" x 26" x 84"	120
	XPV5-8	8 (0.56)	74 (5.2)	800	80" x 26" x 84"	120
	XPV5-12	12 (0.84)	136 (9.6)	800	80" x 26" x 88"	120
7	XPV7-5	5 (0.35)	47 (3.3)	800	80" x 26" x 84"	120
	XPV7-8	8 (0.56)	74 (5.2)	800	80" x 26" x 84"	120
	XPV7-12	12 (0.84)	123 (8.6)	800	80" x 26" x 88"	120
9	XPV9-10	10 (0.70)	97 (6.8)	900	80" x 26" x 90"	120
	XPV9-12	12 (0.84)	117 (8.2)	900	80" x 26" x 94"	120
10.5	XPV10.5-5	5 (0.35)	50 (3.5)	900	80" x 26" x 90"	120
	XPV10.5-8	8 (0.56)	80 (5.6)	900	80" x 26" x 90"	120
	XPV10.5-12	12 (0.84)	126 (8.9)	900	80" x 26" x 94"	120
13	XPV13-10	10 (0.70)	113 (7.9)	1000	100" x 32" x 96"	240
14	XPV14-5	5 (0.35)	55 (3.9)	1000	100" x 32" x 96"	240
	XPV14-8	8 (0.56)	85 (6.0)	1000	100" x 32" x 96"	240
	XPV14-12	12 (0.84)	126 (8.9)	1000	100" x 32" x 100"	120
18	XPV18-10	10 (0.70)	97 (6.8)	1250	87" x 26" x 90"	120
	XPV18-12	12 (0.84)	126 (8.9)	1250	87" x 26" x 94"	120
21	XPV21-5	5 (0.35)	50 (3.5)	1200	87" x 26" x 90"	120
	XPV21-8	8 (0.56)	80 (5.6)	1200	87" x 26" x 90"	120
	XPV21-12	12 (0.84)	126 (8.9)	1200	87" x 26" x 94"	120
26	XPV26-10	10 (0.70)	113 (7.9)	1300	103" x 32" x 96"	240
28	XPV28-5	5 (0.35)	55 (3.9)	1300	103" x 32" x 96"	240
	XPV28-8	8 (0.56)	85 (6.0)	1300	103" x 32" x 96"	240

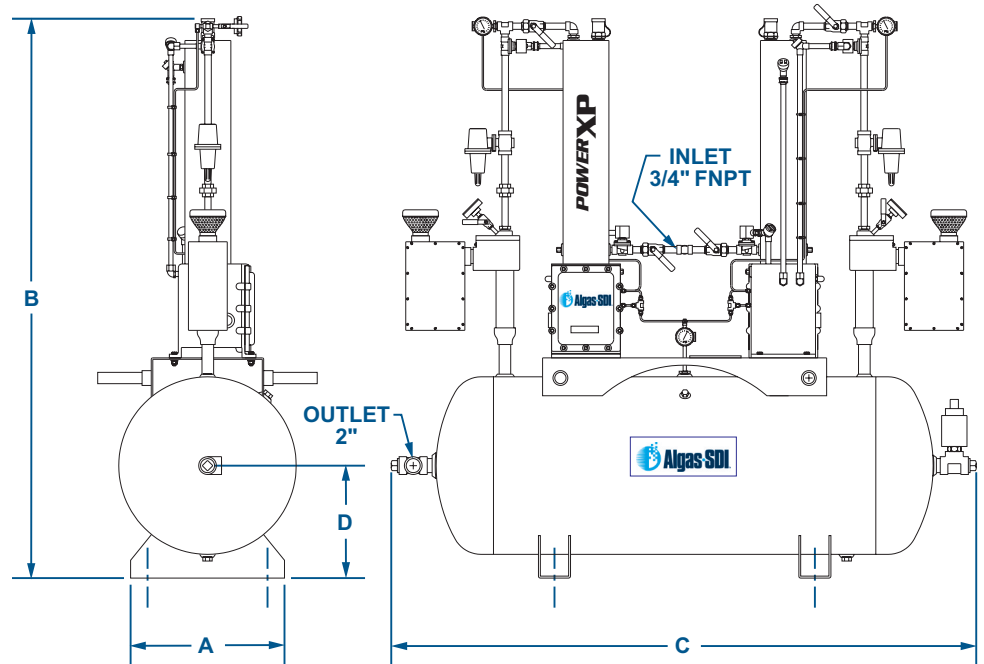
# Electrical

Model	208		220		240		380		415		440		480		575	
	KW	AMPS	KW	AMPS	KW	AMPS	KW	AMPS	KW	AMPS	KW	AMPS	KW	AMPS	KW	AMPS
XPV2.5-5	17.9	49.7	20.0	52.6	23.8	57.3	20.0	30.3	23.8	33.1	20.0	26.3	23.8	28.7		
XPV2.5-8	17.9	49.7	20.0	52.6	23.8	57.3	20.0	30.3	23.8	33.1	20.0	26.3	23.8	28.7		
XPV5-5	17.9	49.7	20.0	52.6	23.8	57.3	20.0	30.3	23.8	33.1	20.0	26.3	23.8	28.7		
XPV5-8	17.9	49.7	20.0	52.6	23.8	57.3	20.0	30.3	23.8	33.1	20.0	26.3	23.8	28.7		
XPV5-12	17.9	49.7	20.0	52.6	23.8	57.3	20.0	30.3	23.8	33.1	20.0	26.3	23.8	28.7		
XPV7-5			20.0	52.6	23.8	57.3	20.0	30.3	23.8	33.1	20.0	26.3	23.8	28.7		
XPV7-8			20.0	52.6	23.8	57.3	20.0	30.3	23.8	33.1	20.0	26.3	23.8	28.7		
XPV7-12							30.0	45.5	35.7	49.6	30.0	39.4	35.7	42.9		
XPV9-10							30.0	45.5	35.7	49.6	30.0	39.4	35.7	42.9		
XPV9-12							30.0	45.5	35.7	49.6	30.0	39.4	35.7	42.9		
XPV10.5-5							30.0	45.5	35.7	49.6	30.0	39.4	35.7	42.9		
XPV10.5-8							30.0	45.5	35.7	49.6	30.0	39.4	35.7	42.9		
XPV10.5-12							39.5	59.6	39.5	54.8	39.5	51.8	39.5	47.5	39.5	39.4
XPV13-10							39.5	59.6	39.5	54.8	39.5	51.8	39.5	47.5	39.5	39.4
XPV14-5							39.5	59.6	39.5	54.8	39.5	51.8	39.5	47.5	39.5	39.4
XPV14-8							39.5	59.6	39.5	54.8	39.5	51.8	39.5	47.5	39.5	39.4
XPV14-12							60.0	91.0	71.4	99.2	60.0	78.8	71.4	85.8		
XPV18-10							60.0	91.0	71.4	99.2	60.0	78.8	71.4	85.8		
XPV18-12							60.0	91.0	71.4	99.2	60.0	78.8	71.4	85.8		
XPV21-5							60.0	91.0	71.4	99.2	60.0	78.8	71.4	85.8		
XPV21-8							60.0	91.0	71.4	99.2	60.0	78.8	71.4	85.8		
XPV21-12							78.9	119.2	79.0	109.6	78.9	103.6	79.0	95.0	79.0	78.0
XPV26-10							78.9	119.2	79.0	109.6	78.9	103.6	79.0	95.0	79.0	78.0
XPV28-5							78.9	119.2	79.0	109.6	78.9	103.6	79.0	95.0	79.0	78.0
XPV28-8							78.9	119.2	79.0	109.6	78.9	103.6	79.0	95.0	79.0	78.0

1. Capacity is based on a nominal mixed gas gross heating value of 1450 BTU/SCF +/- 5% with commercial grade propane. Actual capacity and mixed gas heating value may vary slightly based on installation and operating conditions.
2. Delivery pressures shown are valid up to 2,000 ft. elevation. Contact factory for information regarding applications at higher elevations.
3. Capacities are based on 100% propane. For butane models, contact factory.

# Dimensions

MODEL	A	B	C	D
XPV2.5-5	24"	76 ½"	75"	14"
XPV2.5-8	24"	76 ½"	75"	14"
XPV5-5	24"	76 ½"	75"	14"
XPV5-8	24"	76 ½"	75"	14"
XPV5-12	24"	76 ½"	75"	14"
XPV7-5	24"	76 ½"	75"	14"
XPV7-8	24"	76 ½"	75"	14"
XPV7-12	24"	82"	75"	14"
XPV9-10	24"	82"	75"	14"
XPV9-12	24"	82"	75"	14"
XPV10.5-5	24"	82"	75"	14"
XPV10.5-8	24"	82"	75"	14"
XPV10.5-12	24"	89"	75"	14"
XPV13-10	30"	95"	93"	18"
XPV14-5	30"	95"	93"	18"
XPV14-8	30"	95"	93"	18"
XPV14-12	24"	83"	80"	14"
XPV18-10	24"	83"	80"	14"
XPV18-12	24"	83"	80"	14"
XPV21-5	24"	83"	80"	14"
XPV21-8	24"	83"	80"	14"
XPV21-12	24"	90"	80"	14"
XPV26-10	30"	95"	97"	18"
XPV28-5	30"	95"	97"	18"
XPV28-8	30"	95"	97"	18"



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Note: XPV models 5.0 through 14.0 utilize a single vaporizer / mixer configuration except XPV14-12 (XPV 28.0 shown).

## LPG VAPOR PRESSURE REQUIREMENT DATA FOR PROPANE

Mixed Air/Propane Delivery Pressure (psig)	Min. Inlet Vapor Pressure (psig)	Nozzle Motive Pressure (psig)
5	35 - 55	28-43
8	75 - 90	67-42
10	100 - 125	95 - 115
12	120 - 150	115 - 135

**Contact factory for additional information**

## Features

- ◆ Explosion proof configuration meets Class I, Division 1, Group D as defined by NFPA Pamphlets 58 and 70.
- ◆ Thermal efficiency exceeds 98%.
- ◆ UL Stamped safety relief valve 250 psig.
- ◆ Simple push-button operation.
- ◆ Adjustable mixed gas delivery pressures are available between: 4-5 psig, 6-8 psig, 9-10 psig, and 11-12 psig for propane.
- ◆ Low vapor pressure safety switch prevents rich mixtures from developing.
- ◆ 100% turndown capability, on all models.

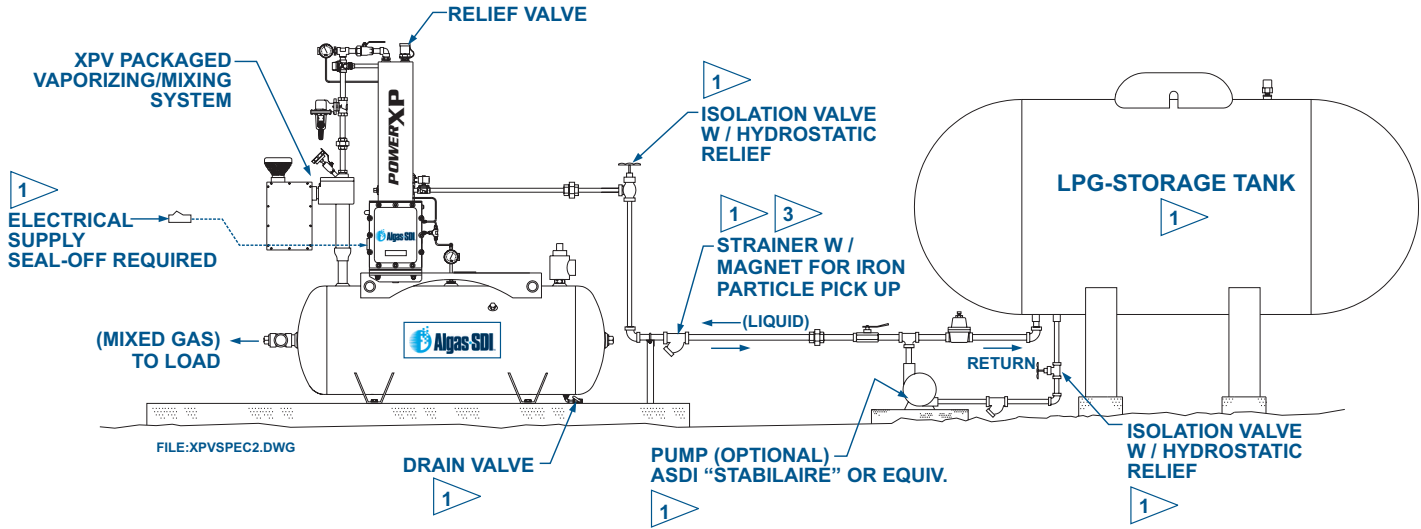
- ◆ High mixed gas pressure safety switch prevents over pressurization of mixed gas accumulator.
- ◆ Shipped complete with all operating and safety controls.
- ◆ Accumulator tanks are fabricated and stamped in accordance with ASME Unfired Pressure Vessel Code, Section VIII, Division 1.
- ◆ Tank Design Pressure: 200 psig at 650°F.
- ◆ All models include venturi silencer for quiet operation.

## Options

- ◆ Auto Restart.
- ◆ Remote Control Panel.
- ◆ Spare Parts Kit.

**NOTES**

- 1 BY OTHERS.
2. INSTALL SYSTEM PER NFPA 58, 70 AND OTHER APPLICABLE CODES.
3. INSTALL MAGNET FOR IRON PARTICAL PICK UP.
4. NO CHECK VALVES IN LIQUID LINE; LIQUID MUST BE ABLE TO FLOW BOTH DIRECTIONS.



*XPV is a trademark of Algas-SDI.*



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**Your ASDI distributor:**



Form: XPV0401