

# G-DRIVE

## Compressor output with high endurance

The G-Drive series offers consistently high performance as well as numerous features for particularly reliable, energy-efficient operation and convenient maintenance.

There are various useful extensions available for the latest generation of ALMiG screw compressors: an efficient heat recovery system with a constant temperature, an integrated refrigeration dryer which is precisely designed for the delivery volume of the system, as well as the latest controllers to network your entire compressed air station. The system extensions do not affect the footprint of the compressor at all.

### Optional integrated refrigeration dryer

In this version, the refrigeration dryer is integrated in the system to save space. The compressor is used to supply the dryer with power, control it and protect it against freezing if operated at "underload". The parameters of the refrigeration dryer are exactly tailored to the respective kW class and the dryer cannot be "bypassed".

### Heat recovery system

All our systems are designed so that an integrated heat recovery system can be fitted into them – either directly at the factory or as a subsequent retrofit. With this system, the energy consumed for the generation of compressed air can be converted almost entirely to usable heat; for example, as hot water for feeding into heating systems or for heating process water or industrial water. The constant temperature of the heat recovery system ensures reliability.

### Reduced service costs

The G-Drive screw compressors are very easy to maintain: all components are easily accessible from one side and the large sound-insulating doors are easy to remove. This reduces the maintenance and downtimes to a minimum, and ensures that the service costs are completely manageable.

#### Application

Industry

#### Power output

30 kW - 75 kW

Volume flow acc. to ISO 1217  
(Annex C-2009)

3.92 - 13.54 m<sup>3</sup>/min

#### Operating pressure

5 - 13 bar; stepless settable

#### Cooling

Air-cooled (standard)

Water-cooled (option)

#### Drive

Gearbox

#### Motor

Energy efficiency class IE 3; IP 55  
protection, protection class F



- + The latest controllers are used to network the entire compressed air station
- + Modular system concept developed for maximum energy efficiency
- + An efficient heat recovery system with a constant temperature
- + An integrated refrigeration dryer which is precisely designed for the delivery volume of the system



Suitable controllers:

### AIR CONTROL B



Standard (G-Drive 30 - 37)

### AIR CONTROL P



Optional (G-Drive 30 - 37)  
Standard (G-Drive 38 - 75)

### AIR CONTROL HE



Optional

Controllers starting on [p. 46](#)

# G-DRIVE



G-DRIVE 30/37

50 Hz								
G-DRIVE	Volume flow acc. to ISO 1217 (Annex C-2009)			Rated motor power	Length	Width	Height	Weight
	8 bar	10 bar	13 bar					
Model	m <sup>3</sup> /min	m <sup>3</sup> /min	m <sup>3</sup> /min	kW	mm	mm	mm	kg
30	5.46	4.86	3.92	30	1681	959	1635	860
37	6.54	5.72	5.04	37	1681	959	1635	885
38	6.76	5.89	4.94	37	1900	1100	1725	1100
45	7.90	6.98	5.91	45	1900	1100	1725	1250
56	9.79	8.95	7.75	55	2300	1380	1950	2120
75	13.54	11.95	10.51	75	2300	1380	1950	2241



G-DRIVE 38-75

60 Hz									
G-DRIVE	Volume flow acc. to ISO 1217 (Annex C-2009)				Rated motor power	Length	Width	Height	Weight
	100 psig	125 psig	150 psig	190 psig					
Model	acfm	acfm	acfm	acfm	hp	inch	inch	inch	lbs
30	193.8	185.5	174.1	135.7	40	67	37.8	64.4	1896
37	244.9	217.8	202.7	188.8	50	67	37.8	64.4	1952
38	260.98	226.42	202.37	181.26	50	75	43	68	2425
45	319.24	265.74	246.50	209.38	60	75	43	68	2755
56	373.98	345.38	316.07	269.61	75	91	54	77	4672
75	509.59	458.03	422.01	360.62	100	91	54	77	4939

# V-DRIVE

## Compressor output with high endurance

The V-Drive series offers consistently high performance as well as numerous features for particularly reliable, energy-efficient operation and convenient maintenance. There are various useful extensions available for the latest generation of ALMiG screw compressors: an efficient heat recovery system with a constant temperature, an integrated refrigeration dryer which is precisely designed for the delivery volume of the system, as well as the latest controllers to network your entire compressed air station. The system extensions do not affect the footprint of the compressor at all.

### Optional integrated refrigeration dryer (up to 37 kW)

In this version, the refrigeration dryer is integrated in the system to save space. The compressor is used to supply the dryer with power, control it and protect it against freezing if operated at "underload". The parameters of the refrigeration dryer are exactly tailored to the respective kW class and the dryer cannot be "bypassed".

### Energy-saving speed control

All variants are equipped with energy-saving speed control. This is where the highly efficient direct drive comes into play: the high-frequency drive motor operates with outstanding efficiency over the entire speed range.

The operating pressure can be adjusted steplessly from 5 to 13 bar. The high-quality frequency inverter is easy to access in the control cubicle – an optimised cooling air guide provides optimum ventilation. Inverters and cables are electro-magnetically shielded.

### Heat recovery system

All our systems are designed so that an integrated heat recovery system can be fitted into them – either directly at the factory or as a subsequent retrofit. With this system, the energy consumed for the generation of compressed air can be converted almost entirely to usable heat; for example, as hot water for feeding into heating systems or for heating process water or industrial water. The constant temperature of the heat recovery system ensures reliability.

### Reduced service costs

The V-Drive screw compressors are very easy to maintain: all components are easily accessible from one side and the large sound-insulating doors are easy to remove. This reduces the maintenance and downtimes to a minimum, and ensures that the service costs are completely manageable.

#### Application

Industry

#### Power output

30 kW - 75 kW

Volume flow acc. to ISO 1217  
(Annex C-2009)

1.77 - 13.00 m<sup>3</sup>/min

#### Operating pressure

5 - 13 bar; stepless settable

#### Cooling

Air-cooled (standard)  
Water-cooled (option)

#### Drive

Direct and speed-controlled

#### Motor

Energy efficiency class IE 3; IP 55  
protection, protection class F



- + The latest controllers are used to network the entire compressed air station
- + Modular system concept developed for maximum energy efficiency
- + An efficient heat recovery system with a constant temperature
- + An integrated refrigeration dryer which is precisely designed for the delivery volume of the system



Suitable controllers:

### AIR CONTROL B



Standard (V-Drive 30 - 37)

### AIR CONTROL P



Optional (V-Drive 30 - 37)  
Standard (V-Drive 38 - 75)

### AIR CONTROL HE



Optional

Controllers starting on [p. 46](#)

# V-DRIVE



V-DRIVE 30/37

50 Hz								
V-DRIVE	Operating overpressure	Volume flow acc. to ISO 1217 (Annex C-2009)		Rated motor power	Length	Width	Height	Weight
		min.	max.					
Model	bar	m <sup>3</sup> /min	m <sup>3</sup> /min	kW	mm	mm	mm	kg
30	5 - 13	1.86	5.53	30	1702	959	1635	720
37	5 - 13	1.86	6.95	37	1702	959	1635	740
38	5 - 13	2.45	7.39	37	1900	1100	1725	1050
45	5 - 13	2.46	8.67	45	1900	1100	1725	1200
56	5 - 13	4.04	10.95	55	2300	1380	1950	1941
75	5 - 13	4.00	14.18	75	2300	1380	1950	2041

\* V relates to an operating overpressure of 7 bar at 50 Hz / 100 psig at 60 Hz



V-DRIVE 38-75

60 Hz								
V-DRIVE	Operating overpressure	Volume flow acc. to ISO 1217 (Annex C-2009)		Rated motor power	Length	Width	Height	Weight
		min.	max.					
Model	psi	acfm	acfm	hp	inch	inch	inch	lbs
38	75 - 190	86.43	260.98	50	75	43	68	2315
45	75 - 190	88.08	319.24	60	75	43	68	2646
56	75 - 190	140.59	373.98	75	91	54	77	4279
75	75 - 190	146.86	509.59	100	91	54	77	4500

V-Drive 30 & 37 in 60 Hz version on request