

The technical characteristics

Pump technical characteristics

Model characteristics		unit	ATH 31			ATH 31+			ATH 31 C		
Inlet flange	DN		I.M.*	40 ISO-KF	63 ISO-K	I.M.*	40 ISO-KF	63 ISO-K	I.M.*	40 ISO-KF	63 ISO-K
Rotation speed	rpm		42000			42000			42000		
Pumping speed	N2	l/s	33	26	30	33	26	30	33	26	30
	He	l/s	15	13	14	22	18	20	22	18	20
	H2	l/s	7	6	6	15	14	14	15	14	14
Compression rate	N2		10 ⁸			10 ¹¹			2x10 ⁹		
	He		6x10 ³			2x10 ⁷			2x10 ⁶		
	H2		300			1x10 ⁵			1x10 ⁴		
Ultimate pressure without purge meas. acc. to Pneurop standard	mbar (Torr)		<10 ⁻⁸ (7.5 ⁻⁸)			<10 ⁻⁹ (7.5 ⁻⁹)			1x10 ⁻⁹ (7.5 ⁻⁹)		
Ultimate pressure with purge meas. acc. to Pneurop standard	mbar (Torr)		-			-			1x10 ⁻⁸ (7.5 ⁻⁸)		
N2 purge flow rate	SCCM		-			-			25		
Maximum pressure at inlet in continuous operation**	mbar (Torr)		1 (0.75)			0.5 (0.375)			1 (0.75)		
Maximum permissible pressure at exhaust	mbar (Torr)		25 (18.75)			45 (33.75)			45 (33.75)		
N2 purge flange	ISO-KF		DN 16								
Noise level	dBA		45								
Weight	lbs (kg)		2.65 (1.2)								
Recommended dry forepump			RVP, ACP 20, membrane pump								
Vibration level	mm/s		0.1								
Starting power	VA		100								
Nominal power	W		15 - 20								
Start-up time (0 to 42000 rpm)	S		90								
Cooling			Standard : natural convection Forced air cooling : optional Water cooling : optional								
Mounting orientation			Any								

* I.M.: Insertable model

** with a 4 m³/h membrane pump

Electrical Characteristics

Characteristics	unit	ACT 201 H
Weight	lbs (kg)	2.6
Dimensions HxLxP	mm	128.4x107x220
Voltages	V	85-132 and 170-264
Frequency	Hz	48/63
Maximum power	VA	100
Ambient temperature	°C	T ≤ 50
Stocking temperature	°C	-15 / +70
Customer main circuit breaker rating	A	T10 A

Technical drawing of the ACT 201 H device, showing front and side views with dimensions in mm and inches.

Front View Dimensions:

- Overall width: 4.21 (107)
- Mounting bracket width: 3.6 (91.4)
- Overall height: 5.06 (128.4)
- Panel height: 4.82 (122.4)
- Panel width: 0.12 (Ø 3)

Side View Dimensions:

- Overall depth: 8.54 (217)
- Panel depth: 4.43 (112.5)

Front Panel Features:

- Model name: ACT 201 H
- Buttons: PREVIOUS, - (minus), + (plus), START STOP, FAULT, ENTER, STAND BY
- Indicator: A L C A T E L