

Option parts

○ : standard attachment ▲ : option ☆ : exclusive detector is useless

UP.	tion parts	Managara (A CAPACIDAD	0.010	arour a atto		op non			r is useles
No.	Option parts	301	302P	302B	303	304	305A	305B	306	306S	307
1	Carrying cart	A	A	A	0	0	A	0			0
2	Floor cart	A	A	A			A				
3	Carrying case	A	A	_			A				
4	Test port (KF16*PG18)	A	☆	☆	A	A	☆	☆	A	☆	_
5	Test port (KF16*KF25)		☆	☆	A	A	☆	☆	A	☆	_
6	Test port (KF16*KF25*PG18)		☆	☆	A	A	☆	☆	A	☆	_
7	L-shaped valve (KF16*KF25) model VULH-16KF	A	☆	☆	A	A	☆	☆	_	☆	_
8	Printer (applicable thermal paper) model DPU-411 TYPE II		A	A	A	_	A	A	_	A	_
9	Printer paper (thermal paper)10 rolls 1 set	A	A	A	A	A	A	A	A	A	A
10	Printer (applicable clean paper) model DPU-5442-OB +PW	A	A	A	A	_	_	_	_	_	_
11	Printer paper (clean paper)10 rolls 1 set	A	A	A	A	A	A	_	A	_	_
12	Oil rotary vacuum pump Irregular voltage specification (120,200,220,240V)	_	_	A	A	_	_	A	_	A	_
13	Remote controller for panel mounting	A	A	_	A	_	_	_	0	0	A
14	Remote meter cable extension (extension 10mUP)	A	A	_	A	_	A	A			_
15	Spray gun	_	☆.	☆	A	_	☆	☆	_	☆	☆
16	HELIOT sniffer gun (2m prove, with KF16 conversion)	A	0		☆	A	☆	☆	☆	☆	☆
17	HELIOT booster unit (2m prove, with exclusive gun)	A		0	☆	A	☆	☆	☆	☆	_
18	Set point buzzer	_	A	_	_	_	A	_	0	0	A
19	Calibration leak 10 ⁻⁷ Pa•m³/s	_	A	A	_	_	A	_	A	•	_
20	Calibration leak 10 ⁻⁸ to 10 ⁻⁹ Pa•m ³ /s	A	A	_	A	A	A	A	_	A	A
21	Calibration leak 10 ⁻¹⁰ Pa•m³/s	A	A	A	A	A	A	A	A	A	A
22	Dummy leak 10 ⁻⁴ to 10 ⁻⁶ Pa•m³/s *1	A	A	A	A	A	A	A	A	A	A
23	Accessory connector	A	A	A	A	A	A	A	A	A	A
24	External panel connector	A	A	A	A	A	A	A	_	A	A
25	RS232C communication connector	_	_	A	_	_	A	_	A	A	A

*1 Required in sniffer mode with model 302 selected. Option parts



This catalog are subject to change without notice to reflect performance improvements, etc.

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HELIUM LEAK DETECTOR HELIUM LEAK DETECTOR 300Series

The HELIOT, which meets all of the requirements for finding gas leaks, is a high-sensitivity helium leak detector with a completely new exhaust construction (select free flow). It is totally automatic in all operating environments, and can respond flexibly to a wide range of needs.

ULVAC's original select-free flow system (an pumping system that allow automatic selection of the test flow, in accordance with the pressure at the test port) combines the best features of both the conventional counter flow method and the direct flow method. In addition, following are included:

- · CPU control allows automatic operation, so that anyone can operate the equipment easily.
- · Leak test can be performed from 1,000 Pa, thus minim test time.
- · High-sensitivity leak test for one liter container can be completed in about 30seconds (model 301)
- · High-sensitivity leak test from the order of 10Pa to 10^{11} Pa · m³/s can be achieved.
- · Wide ranging leak test, from the order of 10⁻¹²to 10⁻⁴Pa·m³/s can be achieved.





Selected by Japanese Ministry of International Trade and Industry's as "Good Design Product."



· Remote meter

Applications

· Automobile industry:

Radiators, gasoline tanks, wheels, air suspension, power steering, brakes.

- · Air conditioner and freezer industry: Condensers, evaporators, compressors.
- · Gas and petroleum industry:
- Hot-water generator, kitchen equipment, heaters, burning equipment.
- Electrical equipment industry:
- Batteries, pots, stove tanks.
- · Machine industry:

Valves, couplings, pipes, pressure gauges. connectors.

· Medical supplies industry:

Intravenous drip containers, medication packages, ampules.

- · Food industry:
- Package in vacuum, cans, snack food package.
- Maintenance of all types of vacuum systems:
 Sputtering systems, Etching systems, CVD systems.



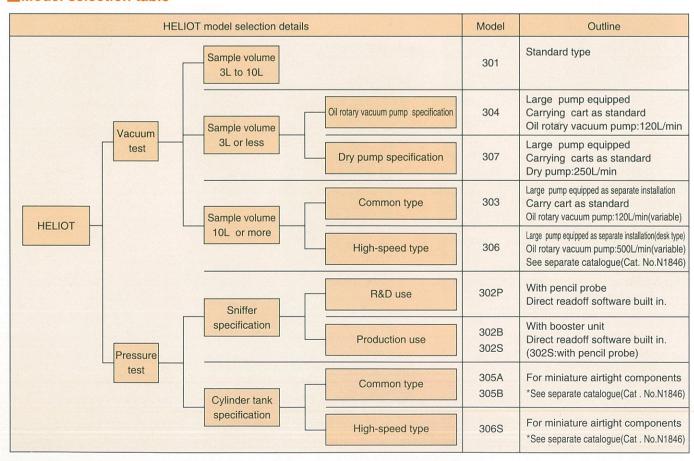


Specifications

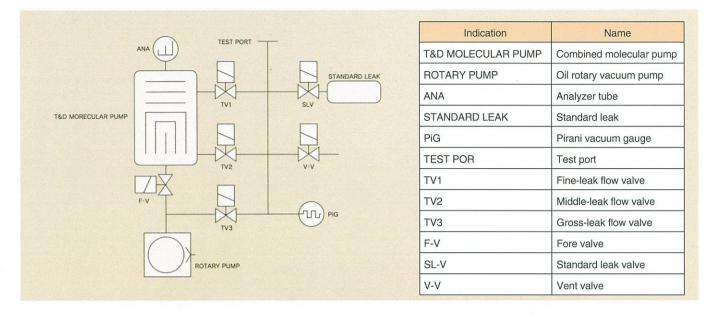
Item	Model	model 301	model 302P(S)*1	model 302B*1	model 303*1	model 304	model 307				
Sensitivity		10 ⁻¹² to 10 ⁻⁴ Pa·m ³ /s	10 ⁻⁹ to 10 ⁻³ Pa·m ³ /s	10 ⁻⁸ to 10 ⁻² Pa·m ³ /s	10 ⁻¹⁰ to 10 ⁻² Pa·m ³ /s	10 ⁻¹² to 10 ⁻⁴ Pa·m ³ /s	10 ⁻¹² to 10 ⁻⁴ Pa·m ³ /s				
Analyzer tube		Electromagnetic field 60° deflection type									
S) Pu	Main pump	Combined molecular pump(30L/s)									
mpi /ste	Main pump Fore pump Roughing pump	Oil rotary vacuum pu	ump (30L/min)			Dry pump(250L/min)					
ng	Roughing pump	Fore pump			Oil rotary vacuum pump(120L/s) Fore pump						
Vacu	ium gauge	Pirani gauge									
Gas inlet		Select free flow Sniffer mode			Big flow mode	Select free mode					
		Intermediate intake from three valves	Intermediate intake	from TV2	Intermediate intake from TV3	Intermediate intake	from three valves				
	ration	 Full automatic(From start of pumping to sensitivity calibration) Automatic selection of valve operation and test flow Leak direct read-off Standard leak automatic temperature correction Auto-zero function Self-diagnostic function 									
Leak	rate display	Digital display by LCD (Japanese and English selectable)									
Look	alarm	Analogue display by LED Standard audio alarm installed									
	er supply	AC 100V 10A			AC 100V 15A	AC 100V 15A					
RS23		Standard	AC 100V 15A AC 100V 15A								
Printer output Standard (Centronics interface) Recorder output LIN:DC 0 V to DC 10 V											
	ternal LOG:DC 0 V to DC 8 V(each digit represents 1V)										
	/output										
						473x599x948	473x599x948				
-		39	39	41	91	83	85				
Weig	ght(kg)		39	41	91						

^{*1:}Can be switched to standard(model 301) by mode setting. *2:Dimensions : W=width, D=depth , H=height NB:See separate catalog for models 305 and 306.

Model selection table



■Pumping system diagram (model 301)



External dimensions

