

## **Heavy-Duty Multi-Stage Vacuum Pump – Coval CMSHD**





COVAL's multi-stage CMSHD vacuum pumps combine performance, robustness, modularity and control.

Equipped with a multi-stage venturi system, the CMSHD vacuum pumps ensure powerful suction flows and high consumption/performance efficiency, promoting important energy savings. The integrated control and blowoff circuit make for a relatively compact centralized vacuum generator with everything all in one place.

- Every element of CMSHD vacuum pumps has been designed and tested to adapt to harsh environments.
- The pumps are IP65 and guaranteed more than 50 million cycles.
- Due to their modular design, it is possible to intervene on each element of the CMSHD pumps. The control function enables regulation of vacuum and blowoff functionalities.
- Add the HMI Module for easy programming and monitoring through the button or NFC interface.
- Standard Control Setup: NC Vacuum and NC Blowoff with PNP IO signal types.
  - NC/NO and PNP/NPN configurable with HMI Module.
- Recommended Hose Size:
  - Vacuum: Ø25mm ID or more.
  - Compressed Air: Ø8mm ID or more.
  - Requirements are application dependent, contact Cobots@EMICorp.com for assistance.
- Control cable purchased separately, see Quick# 7823 or 7824 on page 267.

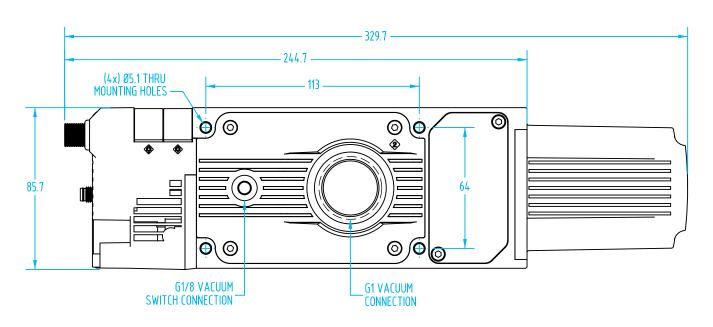
Quick#	Quick# Part# Pri		Max Vacuum	Max Suction Flow*		Air Consumption*		Std. Supply Pressure		Wt
Quick#	Fait#	Price	Level*	CFM	l/min	CFM	I/min	psi	Bar	VVL
8811	CMSHD90X50SVX	\$1,581.39	80%	24.72 CFM	700 l/min	7.77 CFM	220 l/min	79.7 psi	5.5 Bar	890g
8812	CMSHD90X100SVX	\$1,884.08	80%	38.85 CFM	1100 l/min	14.83 CFM	420 l/min	79.7 psi	5.5 Bar	890g

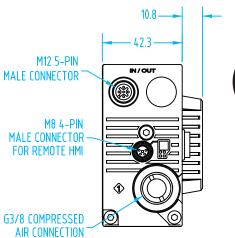
\*Values listed are achieved when supplied at the listed standard supply pressure.

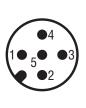


## Heavy-Duty Multi-Stage Vacuum Pump – Coval CMSHD

(Dimensioned drawings shown at 50% scale)







Pin#	M12 5-Pin Male Connector	
1	24 Vdc	
2	24 Vdc suction command	
3	0Vdc – Ground	
4	24 Vdc object gripped D01 - C/Q	
5	24 Vdc blow-off command	



Pin#	M8 4-Pin Remote HMI	
1	24 Vdc	
2	RS485 (DATA+)	
3	0Vdc – Ground	
4	RS485 (DATA-)	



## Remote HMI Module with HD Range

Quick#	Part#	Connection	Price
8815	HMIHD1M84P	M8 4-Pin F	\$552.00



Front Mounting Plate for HMI Module

Quick#	Part#	Price
8816	HMIHD1FIXA	\$44.69





## Low-Profile Exhaust Diffuser

Quick#	Part#	Price
8814	80007941	\$47.38

CU

QC

VG

VC

SG

GR

MT

AC

CS

CC