

Quincy QCV



# Quincy QCV

Dry Claw Solutions | Vacuum Pump



## There is Always a Better Way.

For nearly a century this guiding principle has driven Quincy Compressor engineers and designers to develop new technologies and revolutionize productivity in the compressed air and vacuum world. It is the driving force in everything we do, many of the group's products have become global success stories. The innovation of a rotary screw vacuum pump with Variable Speed Drive delivering on average 50% energy savings, is one of them.

Successful companies bring innovative products that contribute to the productivity of their customers. Premium products are technologically more advanced. On the other hand a brilliant design that offers simplicity is also innovation. You should be offered a solution with the lowest cost of ownership. To score better than competition, innovation is key. What we want to achieve for you are lower life cycle costs, higher productivity, less energy consumption, simple operation, and easy maintenance.

That is also what we aimed for when designing our new QCV Dry Claw Vacuum Solutions: they stand for sustainable productivity.

### Connect and Empower

Thousands of applications – central systems in hospitals, CNC routing, pneumatic conveying, milking parlors – share a common need: vacuum. And that is what Quincy Compressor provides – safely, reliably, cost-effectively and continuously. Connect with Quincy Compressor to get the utility you need to empower your processes and operations and drive your productivity.

### Masters of Innovation

The durability of our QCV Claw Pumps is rooted in our expertise. We acquired Edwards, the company that first introduced claw technology to vacuum applications in the high tech electronics industry. The combined knowledge and experience of these two companies leads to low-cost, efficient and reliable products.

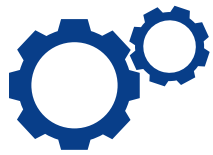
### Fully Certified

Our QCV Dry Claw machines meet the demanding requirements of ISO 9001, ISO 14001 and OHSAS 18001, as verified by Lloyds of London. They are backed by a market-leading warranty and a service support network. The result is 24/7 assurance that your products and your processes are constantly kept in the best possible working order.



# Efficient Vacuum Pumps with Low Life Cycle Costs

The new range based on Quincy Compressor's QCV Dry Claw technology features an innovative design which creates a new benchmark in the claw pump market. The simplicity, robustness, efficiency and contaminant-handling capability of these pumps make them the smart choice for your application. Built to the exacting standards and quality demanded by our customers, the new dry claw pump provides you with a trouble-free and cost-effective solution to meet your needs.



## Built to Last

Manufactured on the fundamentals of Quincy's compressor design, these pumps feature some innovative construction materials and coatings for a lifetime of reliable operation even in harsh conditions.



## Easy Maintenance

Long life bearings and seals, a separate and isolated pumping element, and the simplest of designs suited for quick access to the pumping chamber make for easy cleaning in the event of product carry-over.



## Unrivaled Performance

- Extensive product range
- Unrivaled ultimate vacuum level
- Market leading performance
- Best-in-class power consumption
- Minimal machine life cycle costs
- Low noise levels

## Designed for a Long Life of Reliable–Efficient Operation

The QCV Dry claw machine boasts some fantastic design features, including corrosion resistant claws. The renowned Quincy Compressor surface coating applied to the pump's process chambers has proven to be unrivaled in our compressors.

### 1 Innovative Features

Heavy-duty intake filter for quiet, trouble-free operation.

- Dry (oil-free) pumping chamber
- Market-leading low noise level
- Efficient IE3 motor with variable speed option for complete controllability
- Simple maintenance with contact-free internals eliminating wear
- Cool running and simple air cooling
- Compact design with a small footprint

### 2 Built-in Corrosion Resistance (Standard)

- Corrosion resistant claws
- Coated pumping chamber
- Suitable for many harsh applications

### 3 Cleverly Designed Element

- Easily accessible pumping chamber for cleaning without accessing the gearbox and disturbing the timing
- Modular design allows flexibility and efficiency in terms of maintenance and lifecycle costs

### 4 Upgraded Bearings and Seals

Based on proven compressor and screw vacuum pump design for long, trouble-free life, even in the harshest applications.

### 5 Compact Machine with a Small Footprint

Ideally suited for replacement market, compressor house installations and OEM machinery.

### 6 QCVm packages feature the following

- AirLogic II controller
- Variable Speed Drive
- Significant energy savings: up to 50% compared to fixed speed machines
- Compact package in an acoustical enclosure



Stainless-steel Claws

# Quincy QCV, QCLP & QCVm Technical Data

## QCV 045-220

Type	Sound Level	Block Dimensions			Nominal Capacity	Ultimate Vacuum	Nominal Motor Power
	dB(A)	Length (in)	Width (in)	Height (in)	CFM	HgV	HP
QCV-045	70	36	15	21	46	28.4	3
QCV-110	79	36	15	21	110	28.4	5
QCV-220	82	43	19	27	212	25.8	10

Pumping speed based on air at 20°C / 70°F. Tolerance +/-10%.

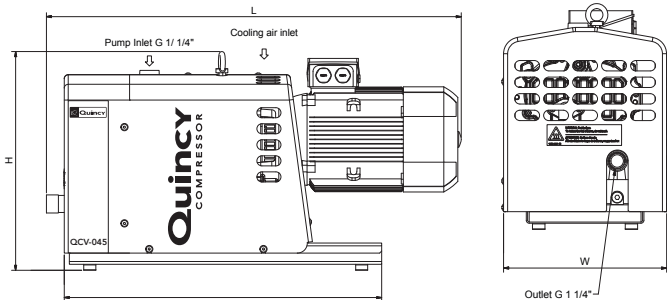
## QCLP 110-220

Type	Sound Level	Block Dimensions			Nominal Capacity	Ultimate Pressure	Nominal Motor Power
	dB(A)	Length (in)	Width (in)	Height (in)	CFM	PSI	HP
QCLP-110	76	36	15	21	106	37	20
QCLP-220	80	43	19	27	212	37	30

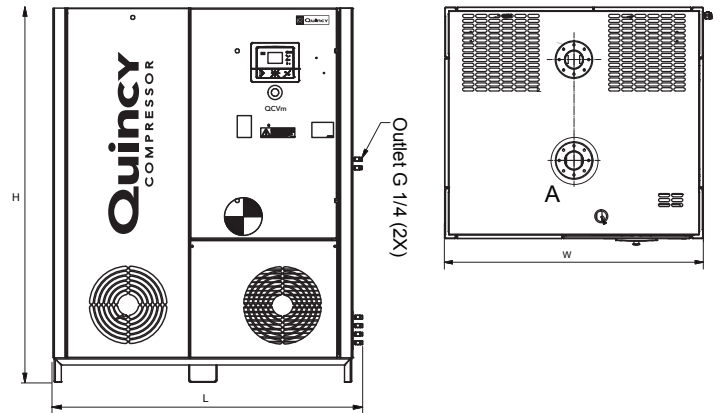
## QCVm 355-710

Type	Sound Level	Block Dimensions			Nominal Capacity	Ultimate Vacuum	Nominal Motor Power
	dB(A)	Length (in)	Width (in)	Height (in)	CFM	HgV	HP
QCVm-355	75	39	56	78	383	25.5	20
QCVm-530	73	65	56	78	569	25.5	30
QCVm-710	73	65	56	78	755	25.5	40

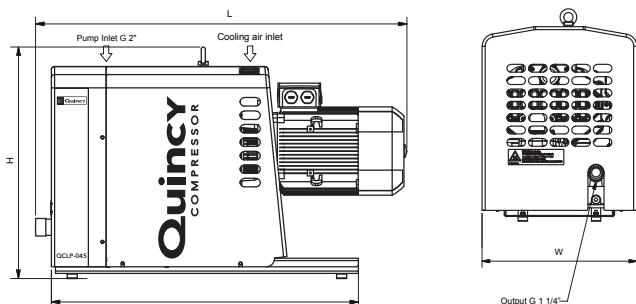
## QCV-045 to QCV-220



## QCVm-355 to QCVm-710

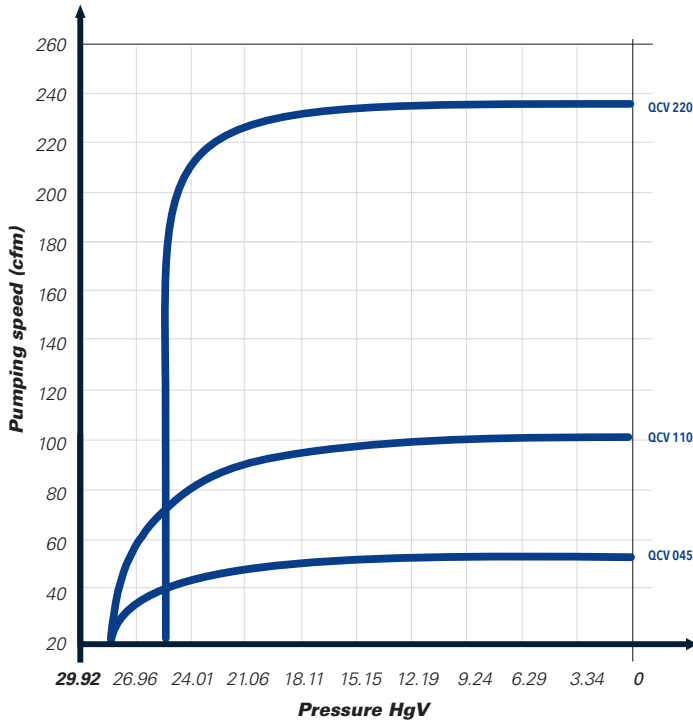


## QCLP-110 to QCLP-220

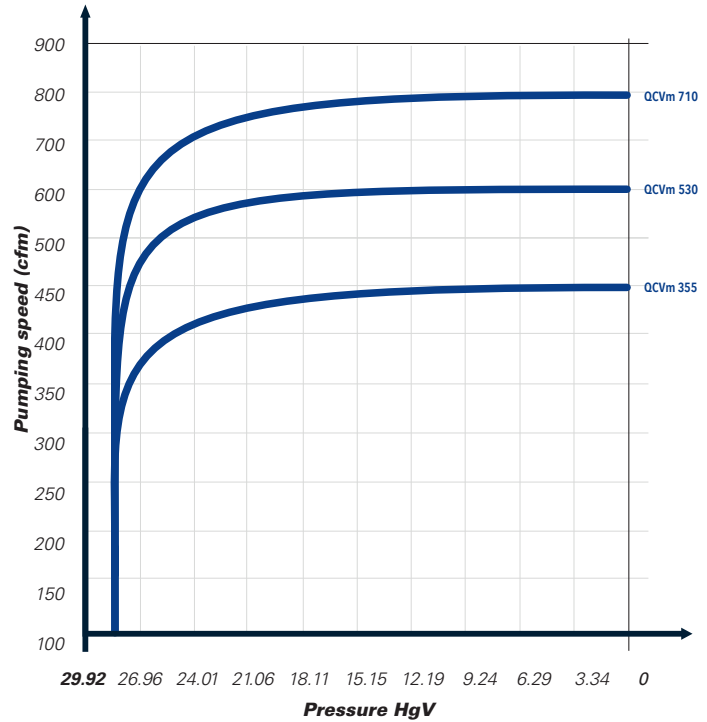


# Quincy QCV & QCVm Dry Claw Solution Performance

QCV 045-220



QCVm-355-710



\*\*\*Curves provided for reference only, please refer to tech data sheets for actual performance.



## Committed to Sustainable Productivity

We stand by our responsibilities to our customers, to the environment and the people around us. We make performance stand the test of time. This is what we call – Sustainable Productivity.

# Ask us about all of Quincy's profit-boosting, uptime solutions!



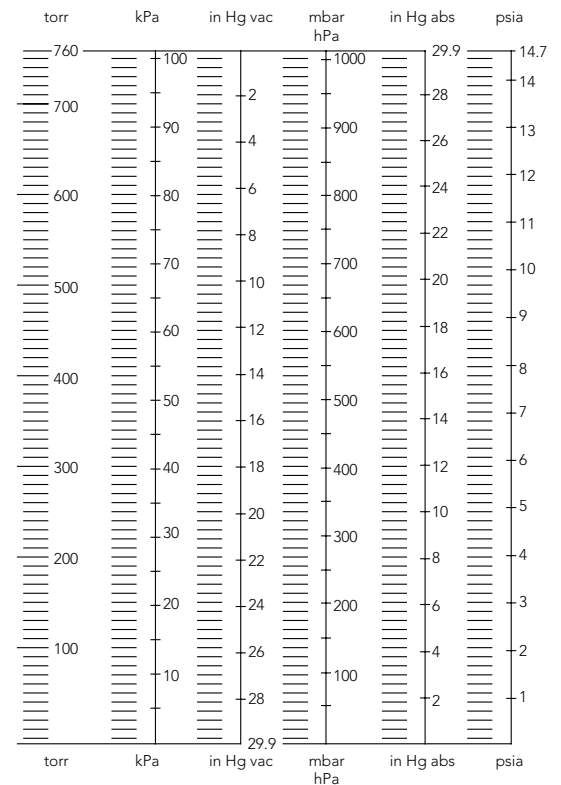
## Volume & weight

From \ To	cm <sup>3</sup>	m <sup>3</sup>	ft <sup>3</sup>	litre	g	lb	kg
cm <sup>3</sup>	1	1 x 10 <sup>-6</sup>	3.53 x 10 <sup>-5</sup>	0.001			
m <sup>3</sup>	1 x 10 <sup>6</sup>	1	35.3	1000			
ft <sup>3</sup>	28317	0.283	1	28.32			
litre	1000	0.001	0.0353	1			
g					1	0.0022	0.001
lb					454	1	0.454
kg					1000	2.205	1

## Unit conversions – pumping speed

From \ To	m <sup>3</sup> /h	l/s	m <sup>3</sup> /s	l/min	cfm
m <sup>3</sup> /h	1	0.278	2,78 x 10 <sup>-4</sup>	16.67	0.589
l/s	3,6	1	1,0 x 10 <sup>-3</sup>	60	2,12
m <sup>3</sup> /s	3,6 x 10 <sup>3</sup>	1,0 x 10 <sup>3</sup>	1	6,0 x 10 <sup>4</sup>	2,12 x 10 <sup>3</sup>
l/min	6,0 x 10 <sup>2</sup>	1,67 x 10 <sup>2</sup>	1,67 x 10 <sup>-5</sup>	1	3,53 x 10 <sup>-2</sup>
cfm	1,70	0,472	4,71 x 10 <sup>-4</sup>	28,32	1

## Atmosphere



Performance You Demand. Reliability You Trust.™

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