



DRY CLAW VACUUM PUMPS

NCP SERIES

Pumps. Systems. Service. Support. — One Source.

DRY CLAW VACUUM PUMPS — PERFORMANCE REPLACEMENTS FOR BUSCH* MINK* MM SERIES

MODELS: NCP-80F, NCP-105F, NCP-155F, NCP-255F2, NCP-305F2, NCP-405F, NCP-515F, NCP-1005F

WATER COOLED: NCP-105W, NCP-155W, NCP-255W, NCP-305W, NCP-330W, NCP-405W, NCP-515W, NCP-1005W



Performance replacements for Busch* Mink* MM Series claw vacuum pumps — dry, contact-free operation up to 671 CFM.

— DRY RUNNING

Oil-free pumping chamber — labyrinth seals separate the pumping and gear chambers.

— PRECISION

Synchronized timing gears keep the claws in precise, contact-free rotation.

— PROTECTION

Built-in anti-suck back valve prevents backflow upon shutdown.

— WARRANTY

1-year factory warranty against manufacturer's defects.

Highest CFM per HP. Built for reliable, moderate vacuum.

NES Company is proud to offer our NCP Series Dry Claw Vacuum Pumps, factory performance tested with a 1-year warranty against manufacturer's defects. The NCP Series delivers the performance of the Busch* Mink* MM Series, giving you a proven alternative for new and existing systems.

MAX FLOW RATE

Up to 671

CFM

POWER RANGE

3–30 HP

Motor power range

ULTIMATE VACUUM

35 Torr

Maximum

CONTINUOUS VACUUM

150 Torr

Continuous duty

SPECIFICATION SUMMARY

Description	Dry Claw Vacuum Pump
Replaces	Performance replacement for Busch* Mink* MM Series
Models	NCP-80F, NCP-105F, NCP-155F, NCP-255F2, NCP-305F2, NCP-405F, NCP-515F, NCP-1005F
Water Cooled	NCP-105W, NCP-155W, NCP-255W, NCP-305W, NCP-330W, NCP-405W, NCP-515W, NCP-1005W
Power Range	3 - 30 HP
Ultimate Vacuum	Continuous: 150 Torr; Maximum: 35 Torr

DESCRIPTION

NES Company Inc. introduces our latest line of vacuum pumps, the NCP Series. The NCP dry claw vacuum pump series is able to generate up to 35 torr at maximum and 150 torr in a continuous process at flow rates up to 671 CFM. The NCP Series is carefully engineered and assembled with tight tolerances. Dry claw vacuum pumps exhibit the highest volumetric efficiency in CFM/HP ratios. Experience the difference that the NES Company NCP Series dry claw vacuum pumps provide for reliable, efficient, moderate vacuum processes.

FEATURES

- ▶ Pumping and gear chambers separated via labyrinth seals.
- ▶ Synchronized timing gears within gear chamber for precision claw operation.
- ▶ Built-in anti-suck back valve prevents backflow upon shutdown.
- ▶ Accessories such as non-return valve, vacuum regulator, and exhaust silencer are available upon request.
- ▶ 1-year factory warranty against manufacturer’s defects.

NOTES

NES Company is proud to offer our NCP Series Dry Claw Vacuum Pump. These dry claw vacuum pumps are factory performance tested and include a 1-year warranty against manufacturer’s defects. Contact NES Company Inc. today to learn more about the series!

FULL TECHNICAL DATA

The following pages cover technical data for air-cooled and water-cooled units, cooling water requirements, applications, and accessories. Contact NES at info@nescompany.com or 800-297-3550 to match an NCP model to your Busch* Mink* MM application.

Technical Data / 60 Hz

NCP-F AIR COOLED UNITS

Model NCP-	Capacity CFM	Ult. Vac. Max. Torr	Ult. Vac. Cont. Torr	Power HP	Speed RPM	Noise dB(A)	Oil Capacity qt.	In/Out BSP (G)	LxWxH in.
80F	53	37.5	37.5	3	3600	70	0.74	1¼"/1"	29x14x18
105F	71	37.5	75	4	3600	75	0.42	1½"	32x17x21
155F	106	37.5	75	5	3600	76	0.42	1½"	33x17x21
255F2	177	37.5	150	7.5	3600	76	0.85	2/1½"	38x20x27
305F2	211	37.5	150	10	3600	77	0.85	2/1½"	39x20x27
405F	282	37.5	150	12.5	3600	78	1.58	3/2½"	44x23x28
515F	353	37.5	150	15	3600	78	1.58	3/2½"	51x23x28
1005F	671	37.5	150	30	3600	85	2.95	DN100 PN6/ DN100 PN10	60x29x41

NCP-W WATER COOLED UNITS

Model NCP-	Capacity CFM	Ult. Vac. Max. Torr	Ult. Vac. Cont. Torr	Power HP	Speed RPM	Noise dB(A)	Oil Capacity qt.	In/Out BSP (G)	LxWxH in.
105W	71	< 22.5	< 22.5	4	3600	75	0.42	1½"	32x17x21
155W	106	< 22.5	< 22.5	5.5	3600	76	0.42	1½"	33x17x21
255W	176	< 22.5	< 22.5	7.5	3600	76	0.85	2/1½"	39x20x27
305W	212	< 22.5	< 22.5	10	3600	77	0.85	2/1½"	39x20x27
330W	230	< 22.5	< 22.5	10	3600	77	0.85	2/1½"	39x20x27
405W	282	< 22.5	< 75	12.5	3600	78	1.58	3/2½"	44x23x28
515W	353	< 22.5	< 75	15	3600	78	1.58	3/2½"	51x23x28
1005W	671	< 22.5	< 75	30	3600	85	2.95	100DN	58x31x50

All air- and water-cooled units: voltage 208-230/460, 220-240/380-420, 400/690 V; ambient operating temperature 40 to 105 °F.

NCP-W COOLING WATER REQUIREMENTS

Model NCP-	Cooling Water Volume (GPM)	Cooling Water Temperature (°F)
105W, 155W, 255W, 305W, 330W	> 0.53	< 77 (preferred) to 86
405W, 515W	> 1.06	< 77 (preferred) to 86
1005W	> 1.59	< 77 (preferred) to 86

Applications / Accessories

APPLICATION TABLE

Applications	
Packaging	Medical Applications
CNC Routing	Laboratory Applications
Woodworking	Plastics Industrial Processes
Pneumatic Conveying	Central Vacuum Systems
Holding & Lifting	... and more!
Pick & Place Procedures	

ACCESSORIES

Accessories	
	Inlet Check Valve
	Vacuum Regulator
	Exhaust Silencer
	Internal Coating

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