NOVABLAST

AIR COOLED AFTERCOOLERS

NOVABLAST BV.
NIJVERHEIDSSTRAAT 25N
3861 RJ NIJKERK
THE NETHERLANDS

INFO@NOVABLAST.COM
WWW.NOVABLAST.COM
+31 85 444 48 90

7-2-25

T: +31 85 444 48 90
M: info@novablast.com
NOVABLAST B.V.
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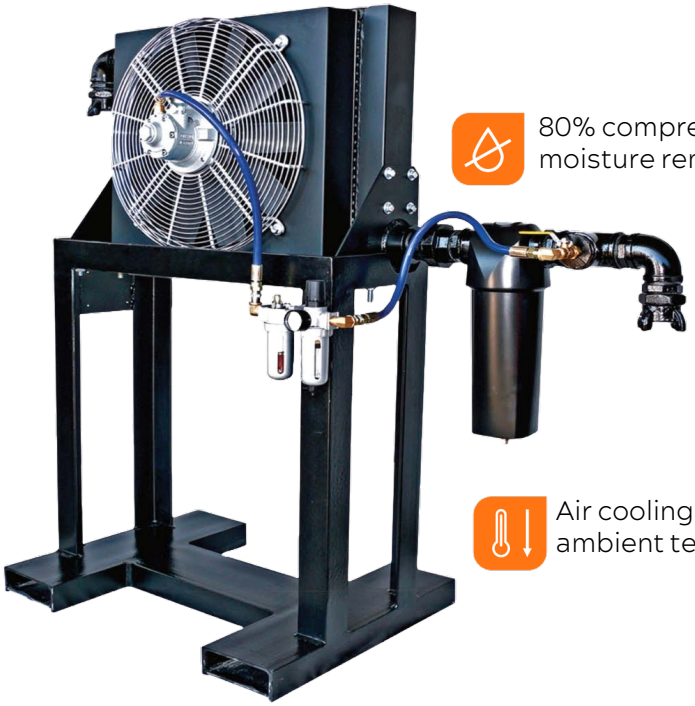
NOVABLAST
SURFACE TREATMENT SUPPLIES

AIR COOLED AFTERCOOLERS

ARE YOU SEEKING THE PERFECT COOLING SOLUTION FOR YOUR INDUSTRIAL PROCESSES? LOOK NO FURTHER.

Our state-of-the-art air driven aftercoolers
are here to improve your operations



80% compressed air moisture removal

Double outlets and inlets

Air cooling to ± 9 °C above ambient temperature

Our After Coolers work with most models of air compressors.
To select the appropriate model, simply determine compressor horsepower and select your model from the chart below.

Item no	HP Compressor	Max CFM	Max CBM^3	Max Working Pressure	Max Working Temperature
82337000	50-75 HP	539	15	250 PSI	121 °C
82337001	100-125 HP	785	22	250 PSI	121 °C
82337002	150-200 HP	1569	44	250 PSI	121 °C

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WHY CHOOSE OUR AFTER COOLERS?

- Compact design saves valuable floor space.
- Air driven resulting in lower energy cost.
- Perfect for mobile applications, providing cooling wherever you need it
- Easy to set-up and running in no time.
- Minimal maintenance, maximum reliability.
- Low maintenance due to fewer moving parts.
- Avoiding the use of electricity and water so perfectly safe.
- Full control by tailoring the coling capacity to exact needs.

Contact us to explore how our aftercoolers match your specific application needs, budget, available space, and performance requirements. Consulting with our qualified engineer in cooling systems can help you make the most suitable selection for your particular circumstances.

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MODELS

Item no	Description	Hs Code
60085000	Air Cooled After Cooler Nbac-15pn 539 Cfm / 15 Cbm3 For 50-75pk Compressor	84149090
60086000	Air Cooled After Cooler Nbac-22pn 785 Cfm / 22 Cbm3 For 100-125pk Compressor	84149090
60087500	Air Cooled After Cooler Nbac-44pn 1569 Cfm / 44 Cbm3 For 150-200pk Compressor	84149090

Specifications	
Max Working Pressure	250 PSI
Max Working Temperature	121 °C
Flow Capacity	Inlet: 2” Universal 4-Jaw Couplings Outlet: 2” Universal 4-Jaw Coupling

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THEORY OF OPERATIONS

Water exists in a vapor state in all atmospheric air. This moisture becomes more concentrated when air is pressurized and gets heated up in the compressor. Due to the high temperature of the air after compression, the moisture remains in a vapor state, above the dew point temperature. The dew point is the temperature at which air becomes saturated at 100% of its capacity to hold water in a vapor state. A general rule is that for every 20 °F rise in temperature, the air can hold twice the moisture load in a vapor state above the dew point.

The aftercooler uses ambient air to cool down the compressed air below the dew point. Ambient air is forced over the cooler by a motor-driven fan and the cooler ambient air removes heat from the compressed air. It removes moisture from the compressed air by airexpansion and the increase in relative humidity, RH. Once the air is cooled, the dew point lowers, and water vapor condenses. When the air’s moisture exceeds the dew point, the water vapor turns into water droplets. A moisture separator installed at the discharge of the aftercooler mechanically removes most of the liquid moisture. The whirling vortex moisture separator utilizes centrifugal force to collect moisture and solids at the bottom of the separator.

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MODELS

Item no	W / All Fitting	W / O Moisture Separator	Weight	Optional	Inlet Options
60085000	L: 62” W: 24” H: 52.5”	L: 62” W: 24” H: 52.5”	140 KG	Dubble Outlet (If air receiver is not used)	Can range from: 1 ½” - 2” - 2 ½”
60086000	L: 66,5” W: 26” H: 54.5”	L: 44” W: 26” H: 54.5”	150 KG	Dubble Outlet (If air receiver is not used)	Can range from: 1 ½” - 2” - 2 ½”
60086000	L: 74.5” W: 32” H: 63”	L: 52” W: 32” H: 63”	205 KG	Dubble Or TrippleOutlet	Can range from: 1 ½” - 2” - 2 ½”

STANDARD PIPING DETAILS

All Models: 2” Fittings W / 2” Moisture Seperator

(Optional: Can Reduce To 1½” Or Increased To 2½”)

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The Netherlands