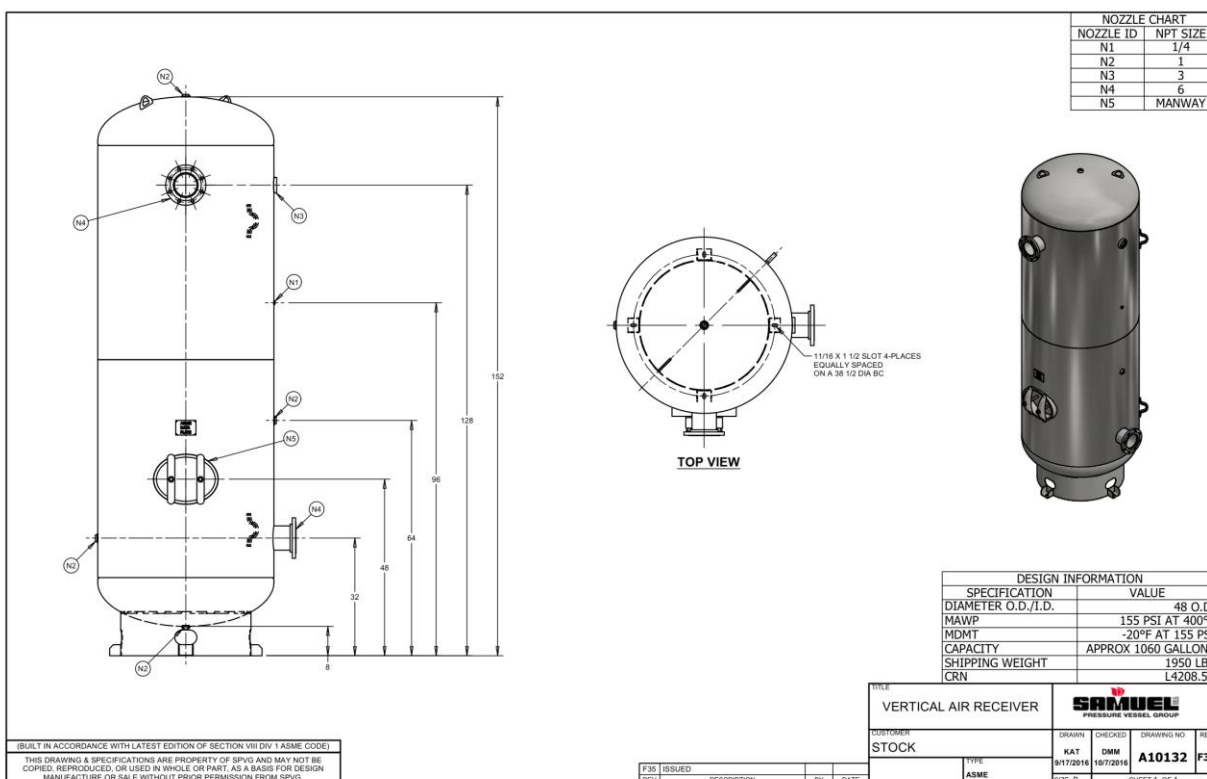
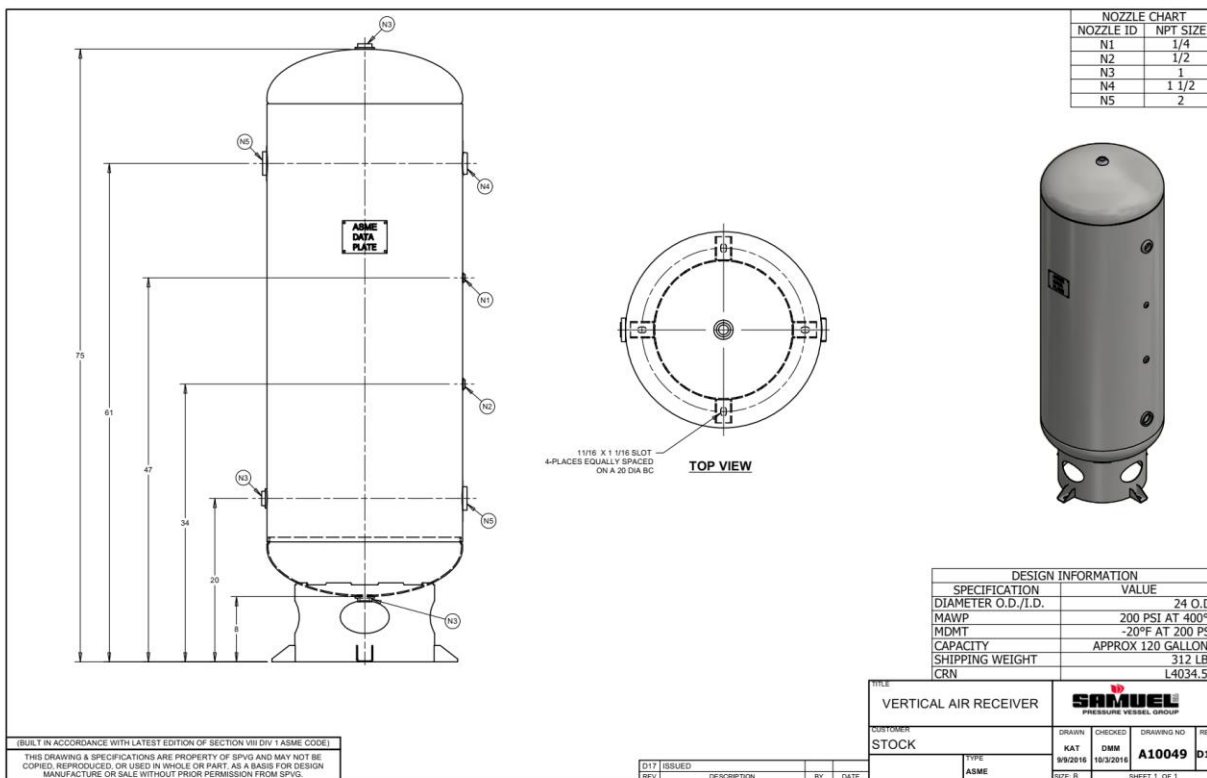






ENGINEERING DATA SHEET

RS185 60Hz

CCN: 47584704001
Rev.: D
ECN: 1273617
Sheet: 1 of 2
Date: Nov-2017

Model		RS185-A110	RS185-A125	RS185-A145
GENERAL PERFORMANCE DATA				
Maximum Target Operating Pressure	(1)	7.6 (110)	8.6 (125)	10.0 (145)
Rated Discharge Pressure		6.9 (100)	7.9 (115)	9.3 (135)
Minimum Operating Pressure		4.5 (65)	4.5 (65)	4.5 (65)
Maximum Operating Ambient Temperature		46 (115)	46 (115)	46 (115)
Minimum Operating Ambient Temperature		2 (36)	2 (36)	2 (36)
Maximum System Temperature Setting		109 (228)	109 (228)	109 (228)
Nominal Power - Main Motor		187 (250)	187 (250)	187 (250)
Main Motor Efficiency	(2)	96.2%	96.2%	96.2%
Capacity FAD	(3)	38.7 (1367)	37.1 (1310)	34.3 (1211)
Package Input Power with Fan - Air Cooled	(4)	221.1	225.8	225.3
Specific Power - Air Cooled	(4)(5)	5.7 (16.2)	6.1 (17.2)	6.6 (18.6)
SOUND LEVEL				
Noise Level Standard Package - Air Cooled		75	75	75
Noise Level Standard Package - Air Cooled		95	95	95
COOLING DATA (@ Maximum Ambient Temperature & Maximum Discharge Pressure)				
Heat Removal (Oil Cooler)		174.5 (595)	180.1 (615)	181.8 (620)
Heat Removal (Oil and Aftercooler)		234.4 (800)	238.0 (812)	235.9 (805)
Permitted Additional Static Pressure		63 (.25)	63 (.25)	63 (.25)
Fan Air Flow		453 (15998)	453 (15998)	453 (15998)
Fan Motor Nominal Power		8.0	8.0	8.0
Cooling Air Temperature Rise @ 30°C		24 (42)	24 (43)	24 (43)
Aftercooler CTD	(7)	8 (14)	8 (14)	7 (13)
AIR END DATA				
Main Rotor Speed		1222	1177	1091
Tip Speed Rotor		21.24	20.46	18.97
Full Load Shaft Power		203.3	207.7	207.3
COOLANT LUBRICATION DATA				
Total Coolant Capacity - Air Cooled	(10)	95 (25.1)	95 (25.1)	95 (25.1)
PIPING CONNECTIONS				
Air Discharge	(8)	4.00 (84M16; 7.5 IN B.C)	4.00 (84M16; 7.5 IN B.C)	4.00 (84M16; 7.5 IN B.C)
Package Automatic Condensate Drain		.38 (FEMALE)	.38 (FEMALE)	.38 (FEMALE)
Coolant Drain - Hose Size		0.875	0.875	0.875
Diameter of Power Inlet		110 (4.3)	110 (4.3)	110 (4.3)
DIMENSIONS AND WEIGHT				
Length, Width, Height		3752, 2150, 2504 (147.7, 84.6, 98.6)	3752, 2150, 2504 (147.7, 84.6, 98.6)	3752, 2150, 2504 (147.7, 84.6, 98.6)
Net Weight - Air Cooled		6300 (13889)	6300 (13889)	6300 (13889)
GA Drawing Number - Air Cooled		47589258	47589258	47589258
ELECTRICAL DATA				
Motor Protection	(12)	TEFC, IP55	TEFC, IP55	TEFC, IP55
Full Load Package Current - Air Cooled	(9)			
Amps @ 380V		435	444	444
Amps @ 460V		360	367	366
Amps @ 575V		288	294	293
Main Motor Locked Rotor Current	(14)			
Amps @ 380V		2966	2966	2966
Amps @ 460V		2450	2450	2450
Amps @ 575V		2142	2142	2142
Package Power Factor		0.85	0.85	0.85
Electrical Installation				
Recommended Supply Cable Size	(16)			
mm ² Cu (Kcmil) @ 380V		500 (900)	500 (900)	500 (900)
mm ² Cu (Kcmil) @ 460V		400 (700)	400 (700)	400 (700)
mm ² Cu (Kcmil) @ 575V		300 (500)	300 (500)	300 (500)
Maximum Recommended Fuse Rating	(18)(11)			
Amps @ 380V		700	700	700
Amps @ 460V		600	600	600
Amps @ 575V		500	500	500



ENGINEERING DATA SHEET

RS185 60Hz

CCN: 47584704001
Rev.: D
ECN: 1273617
Sheet: 2 of 2
Date: Nov-2017

Model	RB185-A110	RB185-A125	RB185-A145
MEDIUM VOLTAGE MODEL - ELECTRICAL DATA			
Motor Protection	IP55	IP55	IP55
Main Motor Current - Air Cooled			
Amps @ 2300V	72	72	72
Amps @ 4160V	41	41	41
Main Motor Locked Rotor Current			
Amps @ 2300V	396	396	396
Amps @ 4160V	226	226	226
Blower Motor Current - Air Cooled			
Amps @ 380V	19	19	19
Amps @ 460V	16	16	16
Amps @ 575V	13	13	13
DIMENSIONS AND WEIGHT			
Length, Width, Height	mm (inches)	4577, 2150, 2504 (180.2, 84.6, 98.6)	4577, 2150, 2504 (180.2, 84.6, 98.6)
Net Weight - Air Cooled	kg (lb.)	8314 (18329)	8314 (18329)
GA Drawing Number - Air Cooled		47589260	47589260

- Notes:**
1. FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C
 2. Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure
 3. IE3 efficiency motor
 4. Measured at rated capacity and rated pressure
 5. Specific power guaranteed in accordance with ISO 1217 : 2009 Annex C
 6. Measured in free field conditions per ISO 2151 using Hemispherical Method; ducted inlet and outlet, with + 3 dB(A) tolerance
 7. CTD based on 100°F/38°C inlet air at 40% Relative Humidity (For alternate conditions contact Ingersoll Rand)
 8. BSPT or NPT, depending on regional standard
 9. Maximum current includes 10% additional current due to fouled filters and elements
 10. 90°C copper cables. Always apply local electrical codes for sizing cables and system protection
 11. Time delay fuse recommended. Apply local electrical codes for fuse sizing
 12. Coolant volumes listed are approximate. See operator manual for coolant fill procedure
 13. 60Hz (±0.5%) motor voltage tolerance: (200)±10% ; (220)±10% ; (230)±10% ; (380)-6+10% ; (440) ±10% ; (575) -6+10%
 14. Star-Delta starting current inrush is about 33% of direct starting current
 15. During the Star-Delta open-starting transition, the in-rush current value could instantaneously peak from 1.8 to 2.8 times the noted Locked-Rotor-Amperage (LRA) values

Product improvement is a continuing goal at Ingersoll Rand. Design and specifications are subject to change without notice or obligation.

nano D⁵: twin tower heatless desiccant air dryers

HLA 350

115V/1Ph/60Hz - 350 scfm desiccant air dryer

The nano D⁵ twin tower heatless desiccant air dryer provides clean dry air for a wide range of industrial applications. These dryers use the pressure swing adsorption principle in a twin tower design to dehydrate and purify compressed air in a simple, efficient and compact package. With digital controls that manage energy consumption and provide dew point monitoring, the D⁵ twin tower heatless desiccant air dryer provides substantial energy savings under various seasonal conditions for critical applications.



general characteristics

rated capacity (scfm)*	350
regeneration air (scfm)*	52.5
absorbed power (kW)	0.24

operating limits

minimum/design/maximum operating pressure range (psig)	70 / 100 / 150
minimum/design/maximum ambient temperature range (°F)	38 / 100 / 120
minimum/design/maximum inlet temperature (°F)	38 / 100 / 120

desiccant chambers

desiccant type	activated alumina
desiccant weight (lbs)	350

controls/design

dryer design	PSA heatless regenerative
controller type	PLC
power supply (V/Ph/Hz)	115/1/60
NEMA rating	NEMA 4X

air circuit

air circuit connections (NPT(F))	1 1/2"
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ISO class

ISO air quality class (water content)	class 2 (-40°F pdp) class 0 or class 1 optional
---------------------------------------	--

*in compliance with CAGI (ADF 100) / NFPA (class H): inlet temperature 100°F, ambient temperature 100°F, inlet pressure 100 psig, pressure dew point -40°F (-94°F optional). For all other conditions, contact support@n-psi.com

features

- UL/cUL compliant
- ASME U stamped pressure vessels
- visual moisture indicator
- integral energy saving outlet dew point control (ES optional)
- pre- and after filters recommended
- variety of options including bypass and pre-packaged systems

electrical features

- PLC controller
- fiber glass cUL panel for NEMA 4X protection class
- ETL approved electrical panel

nano

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charlotte, north carolina
united states

nano-purification solutions penn
new bethlehem, pennsylvania
united states

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st. catharines, ontario
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experience

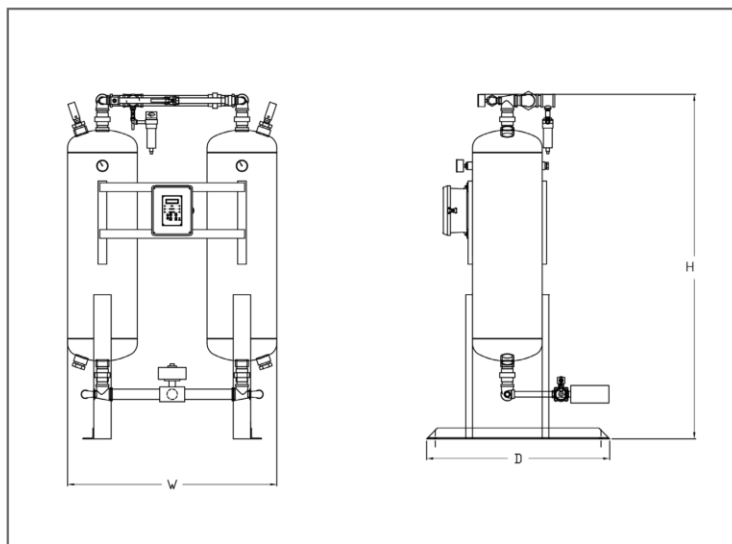
D⁵: twin tower heatless desiccant air dryers

technical specification

dimensions & weight

length in (mm)	44 (1118)
depth in (mm)	42 (1067)
height in (mm)	64 (1626)
weight lbs (kgs)*	735 (333)

*does not include desiccant



technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

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publication reference n-psi-D5-HLA350-01-us

nano F¹: compressed air & gas filtration

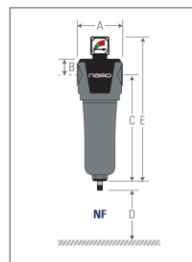
NF 1000 (grade) 1000 scfm compressed air & gas filter

nano F¹ performance validated compressed air & gas filters are available in a complete range of element grades designed to meet and exceed industry air quality requirements. Filtration performance is tested and validated by an independent laboratory to ISO 12500 standards.



general characteristics	
rated flow (scfm) ⁽¹⁾	1000
operating limits	
design operating pressure range (psig) ⁽²⁾	22 to 232
design operating temperature range (°F)	35 to 176
housing construction	
materials	pressure die cast aluminum
finish	E-Coat™ surface treatment (internal & external) powder paint (external)
element construction	
media	borosilicate glass microfiber
end caps	glass filled nylon
replacement element (part no)	E 1000 (grade)
components	
automatic float drain	NDK 1500 as standard
differential pressure indicator / gauge	NDP 1500 as standard
air circuit	
inlet & outlet connections (NPT)	3"

dimensions and weights	
A (ins)	8.27
B (ins)	2.64
C (ins)	20.94
D (ins)	3.00
E (ins)	26.38
weight (lbs)	18.7



element grades	M25	M5	M1	M01	AC
maximum particle size (ISO class) ⁽³⁾	-	3	2	1	-
maximum oil content (ISO class) ⁽³⁾	-	4	2	1	1
particle removal (microns)	25	5	1	0.01	-
max oil carry over at 68°F (ppm or mg/m ³)	10	5	0.1	0.01	0.003
recommended operating temp range (°F)	35 to 176	35 to 176	35 to 176	35 to 176	35 to 77
design operating temperature range (°F)	35 to 176	35 to 176	35 to 176	35 to 176	35 to 122

(1) at 100 psig. For all other pressures, contact support@n-psi.com

(2) for pressure below 22 psig, order with a NDK 0050 condensate drain

(3) per ISO 8573.0:2001 (E)

(4) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

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naeo

experience

F1: compressed air & gas filtration

features

housing features

- designed in accordance with ASME pressure vessel standards
- carries CRN (Canadian Registration Numbers) for approved use in every province of Canada
- "dead stop" bowl feature provides full closure without overtightening
- optimized piston seal ensures zero leakage and ease of bowl removal during element replacement
- no tie rod simplifies element change out and reduces access requirements for bowl removal
- comprehensive range of filter mounting accessories
- 10 year housing warranty

element features

- designed to exceed the ISO 8573-1 standards for compressed air purity and the ISO 12500 series international standard for compressed air filter testing
- filtration performance validated and tested in independent laboratories in accordance with international filtration standards
- double element o-ring prevents contaminant bypass
- stainless steel cylinders provide strength, rigidity and corrosion resistance
- deep bed filter media provides low differential pressure
- 1 year element warranty (grades M1 to M25)

accessories



connecting kits

description	fits	part number
NF connecting kit	NF 1000	NCK 1500



wall mounting kits

description	fits	part number
NF wall mounting kit	NF 1000	NMK 1500



technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

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QWIK-PURE®

HIGHLY EFFICIENT

AND ADAPTIVE

CONDENSATE SEPARATION

TECHNICAL DATA

QWIK-PURE®

COMPRESSOR PERFORMANCE		PISTON COMPRESSOR		ROTARY SCREW COMPRESSOR		
Compressor HP	Compressor SCFM	Mineral Oils	Synthetic Oils	Mineral Oils	PAO/Diester Oils	Polyglycol/Synthetic
10	45	25	25	25	25	25
15	60	25	25	25	25	25
20	90	25	50	25	25	50
25	113	50	50	25	50	50
35	158	50	100	50	50	100
40	180	50	100	50	50	100
50	225	100	100	50	100	100
60	270	100	200	100	100	200
75	338	100	200	100	100	200
100	450	200	350	100	200	200
110	495	200	350	200	200	350
130	585	200		200	200	350
175	788	350		200	350	350
200	900	350		200	350	2 x 200
210	945	350		350	350	2 x 350
250	1125	350		350	350	2 x 350
270	1215			350	2 x 200	2 x 350
350	1575			350	2 x 350	2 x 350
400	1800			2 x 200	2 x 350	3 x 350
500	2250			2 x 350	2 x 350	3 x 350
600	2700			2 x 350	3 x 350	4 x 350
700	3150			2 x 350	3 x 350	4 x 350
800	3600			3 x 350	4 x 350	4 x 350
1000	4500			3 x 350	4 x 350	
1300	5850			4 x 350	4 x 350	
1600	7200			4 x 350		

To use the QWIK-PURE® Product Selector Chart, first locate either your compressor horsepower (for multiple compressors use the total system horsepower) or the net flow rate of your compressed air system. Follow the row to the right and locate the column with the appropriate compressor type and lubricant for your particular application (i.e. piston compressor with synthetic lubricant) and you will instantly know the correct QWIK-PURE® model size for your compressor type.

Capacity tests and our long-term experience have enabled us to make locational adjustments to our capacity figures by taking global climate data into account. Therefore, if you feel that your regional location may have an impact on the application or installation, please consult your BEKO representative for details.

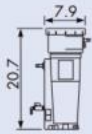
The cartridge lifetime is typically 6 months or 3,000 operating hours depending on type of compressor employed, compressor lubricant, compressor load, ambient temperature, compressed air temperature and other various conditions.

TECHNICAL DATA

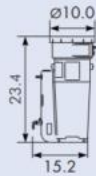
QWIK-PURE®

	QWIK-PURE® 25	QWIK-PURE® 50	QWIK-PURE® 100	QWIK-PURE® 200	QWIK-PURE® 350
Tank capacity (container volume)	2.64 gal	4.91 gal	17.73 gal	30.51 gal	60.34 gal
Filling capacity	1.14 gal	3.09 gal	12.46 gal	19.15 gal	36.24 gal
Condensate inlet (hose connection)	2 x 1/2" (di = 10 mm)	2 x 1/2" (di = 10 mm)	1/2" (di = 13 mm) or 1" (di = 25 mm)	3 x 1/2" (di = 13 mm) 1 x 1" (di = 25 mm)	3 x 1/2" (di = 13 mm) 1 x 1" (di = 25 mm)
Water outlet (hose connection)	1 x 1/2" (di = 10 mm)	1 x 1/2" (di = 10 mm)	1 x 1" (di = 25 mm)	1 x 1" (di = 25 mm)	1 x 1" (di = 25 mm)
Weight empty	7.7 lbs	12.7 lbs	24.5 lbs	70.6 lbs	92.6 lbs
Min /max temperature	+41 to +140 °F	+41 to +140 °F	+41 to +140 °F	+41 to +140 °F	+41 to +140 °F
Max operating pressure at inlet	232 psig	232 psig	232 psig	232 psig	232 psig
Pre-filter capacity	0.66 gal	1.24 gal	—	4.89 gal	9.60 gal
Main filter capacity	0.69 gal	1.27 gal	10.65 gal	5.42 gal	10.65 gal

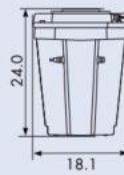
QWIK-PURE® 25



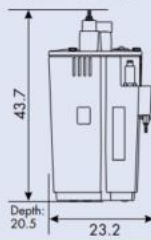
QWIK-PURE® 50



QWIK-PURE® 100



QWIK-PURE® 200



QWIK-PURE® 350

