

HOVIONE	Hurricane MK cyclone for product recovery of api's from a spray dryer. Gas Flow: 820m ³ /h at 85ºC Expected Efficiency: 99.1% – 99.2% Client: Hovione Location: Loures, Portugal Year: 2016	RF3038
HOVIONE	Hurricane HR cyclone system optimized for pharmaceutical product recovering in a NIRO mobile minor spray dryer. Gas Flow: 820m ³ /h at 85ºC Expected Efficiency: 99.1% – 99.2% Client: Hovione Location: Loures, Portugal Year: 2016	MW 2995
Upperton	Hurricane MK cyclone for product recovery of api's from a spray dryer. Gas Flow: 820m ³ /h at 85ºC Expected Efficiency: 99.1% – 99.2% Client: Hovione Location: Loures, Portugal Year: 2016	JB2754
H HOVIONE	Hurricane MK cyclone for product recovery of api's from a spray dryer. Gas Flow: 820m ³ /h at 85ºC Expected Efficiency: 99.1% – 99.2% Client: Hovione Location: Loures, Portugal Year: 2016	MW2375
werner	Hurricane HR system for baby powder milk recovery. Gas Flow: 26.000m ³ /h Expected Efficiency: >98.09% Expected Emissions: <385mg/Nm ³ Client: Werner Location: Denmark Year: 2016	MW2686
HOVIONE	Hurricane HR for the product recovery after a spray dryer. Gas Flow: 112 kg/h N ₂ at 89°C Expected Efficiency: 78.3 - 83.1% Client: Hovione Location: Loures, Portugal Year: 2016	RF2699
	 ReCyclone® EH system for recovery of nanoparticles of metal oxides (ZnO) placed downstream of a reactor. The objective was to replace an existing wet scrubber in order to increase efficiency with a completely dry system. Gas Flow: 260m³/h at 80^oC reactor Efficiency: 90 - 96% Client: Innovnano Location: Coimbra, Portugal Year: 2009 	P1121
HOVIONE	Hurricane HR for the product recovery after a spray dryer Gas Flow: 390m ³ /h at 53°C Expected Efficiency: 80 – 81.5% Client: Hovione Location: Loures, Portugal Year: 2016	RF2604
Leibniz-Gemeinschaft J	Hurricane HR cyclone system for the recovery of atmospheric airborne particles. Gas Flow: 200m ³ /h at 25ºC Type of Particles: Atmospheric airborne particles Emissions: N/A Client: Leibnitz Institute Location: Cabo Verde Year: 2016	H2572
H HOVIONE	Hurricane HR _MK for the product recovery after a spray dryer Gas Flow: 410m ³ /h at 85ºC Expected Efficiency: 99.1 - 99.2% Client: Hovione Location: Loures, Portugal Year: 2016	MW2378



		Hurricane HR cyclone system designed for product recovery on a nitrogen gas stream. Gas Flow: 113m ³ /h at -85ºC Efficiency: >99.98% Client: IPSEN Location: Nice, France Year: 2016	RF2540
	H HOVIONE	Hurricane system for pharmaceutical powder recovery after a spray dryer. Gas Flow: n/a Expected Efficiency: n/a Client: Hovione Location: Loures, Portugal Year: 2016	MW2348
		 Hurricane MK for product recovery and reduction of particulate emissions in the exhaust gases from the dryer of sulphanilic acid. Gas Flow: 14.000m³/h at 70°C Efficiency: 99.5-99.6 % Emissions: 40-80mg/Nm³ Client: Quimigal S.A. Location: Estarreja, Portugal Year: 2016 	P2415
	a Jehnwen-Jehnwen company	Hurricane HR cyclone and Hurricane MK cyclone optimized for product recovering in a milling line. Gas Flow: 38 m ³ /h at 20 ^o C Expected Efficiency: 87.90 – 90.80% Emissions: 6 mg/Nm ³ Client: Omrix S.A. Location: Jerusalem, Israel Year: 2016	JB2344
_		Hurricane HR cyclone system designed for product recovery on a nitrogen gas stream. Gas Flow: 113m ³ /h at -85ºC Efficiency: >99.98% Client: IPSEN Location: Nice, France Year: 2015	P2392
	H HOVIONE	Hurricane system for pharmaceutical powder recovery after a spray dryer. Gas Flow: 1500(N ₂)kg/h + 40(H ₂ O)kg/h at 85 ^o C Expected Efficiency: 96% Client: Hovione Location: Loures, Portugal Year: 2015	MW2348
2	Juan José Albarracín, s.a. 🗼 La Estrell	Hurricane HR cyclone, to recover paprika powder from 3 milling lines. Gas Flow: 11.010m ³ /h at 47,5ºC Expected Efficiency: 99.7% Client: Albarracín Location: Murcia, Spain Year: 2014	H2007
	CONFIDENTIAL	Hurricane HR cyclone for dry yeast recovery from a stream of air Gas Flow: 398m ³ /h at 25°C Expected Efficiency: 90.70% Client: Confidential Location: Setubal, Portugal Year: 2014	MW1870
	A SANOFI COMPANY	 Hurricane HR-HYD cyclone system for liquid-solid separation of living cells from medium in the vaccine production. Gas Flow: 500l/h Expected Efficiency: 80% Client: Merial Location: Lion, France Year: 2014 	HT1933
_	pulmatrix	Hurricane MK cyclone system for the recovery of pharmaceutical powder. Gas Flow: 112m ³ /h Expected Emissions: 336 mg/Nm ³ Capture efficiency: 85.08% Client: Pulmatrix Location: Massachusetts, USA Year: 2014	MW1966



pulmatrix	Hurricane HR cyclone system for the recovery of pharmaceutical powder. Gas Flow: 112m ³ /h Expected emissions: 646mg/Nm ³ Performance guarantee: 71.29% Client: Pulmatrix Location: Ponte Cremenaga, Switzerland Year: 2014	MW1965
₩ VENDÉE	Hurricane HR system for product recovery of powder coating from exhaust-air of painting booth 31°C Gas Flow: 10.372m ³ /h at 31°C Expected Emissions: 47mg/Nm ³ Expected Efficiency: 97.1-97.6% Client: Thermolaquage de Vendée Location: Poitiers, France Year: 2013	HT1720
werner	Hurricane HR system for baby powder milk recovery. Gas Flow: 26.000m ³ /h Expected Efficiency: >98.09% Expected Emissions: <385mg/Nm ³ Client: Werner Location: Denmark Year: 2013	P1706
H HOVIONE	Hurricane HR cyclone to capture particles produced in a buchi spray drying process. Gas Flow: 3m ³ /h at 40 ^o C Expected Efficiency: 88.14% Expected Emissions: <198mg/Nm ³ Client: Hovione Location: Loures, Portugal Year: 2014	MW2020
HOVIONE	Hurricane HR system for pharmaceutical powder recovery after a spray dryer. It was installed to replace an existing high efficiency cyclone from the spray dryer manufacturer in order to increase powder recovery. Gas Flow: 82kg/h N ₂ at 70°C Global collection efficiencY: XXXXXXXXXX% Client: Hovione Location: New Jersey, USA Year: 2013	MW1819
FRICHS 45	Hurricane HR cyclone system for bio-char recuperation from a biomass (straw) pyrolysis process. Gas Flow: 2.243m ³ /h at 750°C Expected Efficiency: 99.6-99.7% Guarantee Emissions: 1500mg/Nm ³ Client: Frichs Location: Horsens, Denmark Year: 2013	MW1715
ETH zürich	Hurricane HR cyclone system designed for the recovery of atmospheric airborne particles in an air stream. Gas Flow: 200m ³ /h flowrate at 25ºC Global collection efficiency: 61.3-66.96% Client: ETH Location: Switzerland Year: 2013	P1623
Physical Sciences Inc.	ReCyclone [®] EH system to increase silicon nanoparticle collection (30-60 nm) after a supersonic expansion of a SiH4 plasma jet. Gas Flow: 62m ³ /h at 100 ^e C Expected and measured efficiency: >90% Client: Physical Sciences Location: Andover, USA Year: 2013	P1536
Arla	Hurricane HR system designed for product recovery of food ingredient on an air stream from a spray dryer. Gas Flow: 57.878m ³ /h at 75 ºC Expected collection efficiency: 98.62-98.96 % Client: Arla Foods Location: Holstebro, Denmark Year: 2013	HT1349
werner	Hurricane HR system for baby powder milk recovery. Gas Flow: 26.000m ³ /h Expected capture efficiency: >98.09% Expected Emissions: <385mg/Nm ³ Client: Werner Location: Reutlingen, Denmark Year: 2013	P1706



Mankind III > Serving Life	Hurricane MK cyclone system designed for product recovery on a GEA Niro SD Micro spray dryer. Gas Flow: 39m ³ /h at 165ºC Expected efficiency: 70-73.5 % Client: MannKind Corporation Location: California, USA Year: 2012	HT1488
	 Hurricane HR cyclone system optimized for API recovery after a mixer. The cyclone is ø 800 mm, manufactured in AISI 316L under the most strict pharmaceutical quality standards. Gas Flow: 3.400m³/h at 75°C Expected efficiency: 98.6-98.8 % Client: Merck Location: Meyzieu, France Year: 2012 	P1391
Arla	 Hurricane HR system aiming to increase the recovery of milk proteins' powder after a spray dryer. It was installed to replace an existing high efficiency cyclone from the spray dryer manufacturer in order to increase powder recovery. Gas Flow: 92.000m³/h at 65°C Expected Efficiency: 98.9-99.3% Measured Efficiency: 99.1% Client: Arla Foods Location: Holstebro, Denmark Year: 2012 	HT1384
Dexera	Hurricane HR cyclone system designed for the collection of flakes and dust from a milling process. Gas Flow: 6.769m ³ /h at 35°C Expected Efficiency: 99.09-99.42% Client: Dexera Location: Paris, France Year: 2012	HT1366
TEVA PHARMACEUTICALS	Single Hurricane cyclone system to increase powder recovery after spray dryer processing. Gas Flow: 74m ³ /h gas at 40ºC Emissions: 95% Client: Teva Location: Gajraula, India Year: 2012	P1202
	Hurricane system designed for product recovery on a nitrogen gas stream Gas Flow: 113m ³ /h at -85ºC Efficiency: >99.98% Client: IPSEN Location: Nice, France Year: 2011	P1376
Good Food, Good Life	 Hurricane HR system for recovery of dried powder milk from the flue gases of a drying tower. The objective is to avoid the use of a bag filter and comply with regulatory emission limits. Gas Flow: 31.100m³/h at 75°C Emissions: <50mg/Nm³ Client: Nestlé – Prolacto Location: Azores, Portugal Year: 2010 	P1045
S Pierre Fabre	 Hurricane HR cyclone system for active pharmaceutical ingredient recovery. This equipment designed for an easier cleaning. Gas Flow: 12.5m³/h at 25^oC Efficiency: 99.95% Client: Pierre Fabre Location: Gaillac, France Year: 2011 	P1164
FERMEL	 Hurricane HR system and sedimentation chamber for mining machine for the recovery of leftover material in mining operations. Gas Flow: XXXXXX Emissions: N/A Client: Fermel Location: Cape Town, South Africa Year: 2010 	P1114
AZO.	Hurricane HR system designed to increase fat powder recovery. Gas Flow: 4.875m ³ /h at -5.5°C Efficiency: 99.94% Client: AZO Location: Antwerpen, Belgium Year: 2010	P1380



AZO [°] .	Hurricane HR system designed for fat powder recovery in the food industry. Gas Flow: 3.900m ³ /h at 5ºC Expected Efficiency: 99.96% Client: AZO Location: Antwerpen, Belgium Year: 2010	P1100
AZO.	Hurricane HR cyclone system designed for PTFE powder in a chemical industry. Gas Flow: 2.550m ³ /h at 20ºC Expected Efficiency: 98.76% Client: AZO Location: Antwerpen, Belgium Year: 2010	P985
CORRUGADOS GETAFE Grupo Alfonso Gallardo	 Hurricane HR system designed for product recovery of fine dust obtained in a steel industry process. System was installed to recover uncontaminated white slag powder before reaching the bag filter and reducing heavy maintenance costs of the filter. Gas Flow: 158.500m³/h at 165°C Efficiency: >97 % Client: Corrugados Getafe Location: Madrid, Spain Year: 2010 	P1002
MOENGO MINERALS	Hurricane HR system designed for product recovery of very fine metakaolin particles. Gas Flow: 21.368 m ³ /h at 650ºC Emissions: 89.2-92.6% Client: Moengo Minerals Location: Marowijne, Suriname Year: 2010	P1012
HOVIONE	 Hurricane HR cyclone system for pharmaceutical powder recovery after a spray dryer. It was installed to replace an existing high Efficiency cyclone from the spray dryer manufacturer in order to increase powder recovery Gas Flow: 82kg/hN₂ at 70°C Emissions: N/A Client: Hovione Location: New Jersey, USA Year: 2010 	P1112
	 ReCyclone® EH system for recovery of nanoparticles of metal oxides (ZnO) placed downstream of a reactor. The objective was to replace an existing wet scrubber in order to increase efficiency with a completely dry system. Gas Flow: 260m³/h at 80°C reactor Efficiency: 90-96% Client: Innovnano Location: Coimbra, Portugal Year: 2009 	P1121
HOVIONE	 Hurricane HR cyclone system for pharmaceutical powder recovery after a spray dryer. Installed to replace an existing high efficiency cyclone from the spray dryer. Gas Flow: 1.500kg/h N₂ + 40kg/h H₂O at 85°C \ Efficiency: >97% Client: Hovione Location: Loures, Portugal Year: 2008 	P1024
GUIMIGAL Grupo CUF	ReCyclone [®] MH system for chemical powder recovery (sulfanilic acid) In a fluidized bed dryer. It was installed to replace a pulse jet bag filter in order to increase powder recovery Gas Flow: 14.000m ³ /h at 70 ^o C Efficiency: 99.5-99.6 % Emissions: 40-80 mg/Nm ³ Client: Quimigal S.A. Location: Estarreja, Portugal Year: 2001	PXXXX