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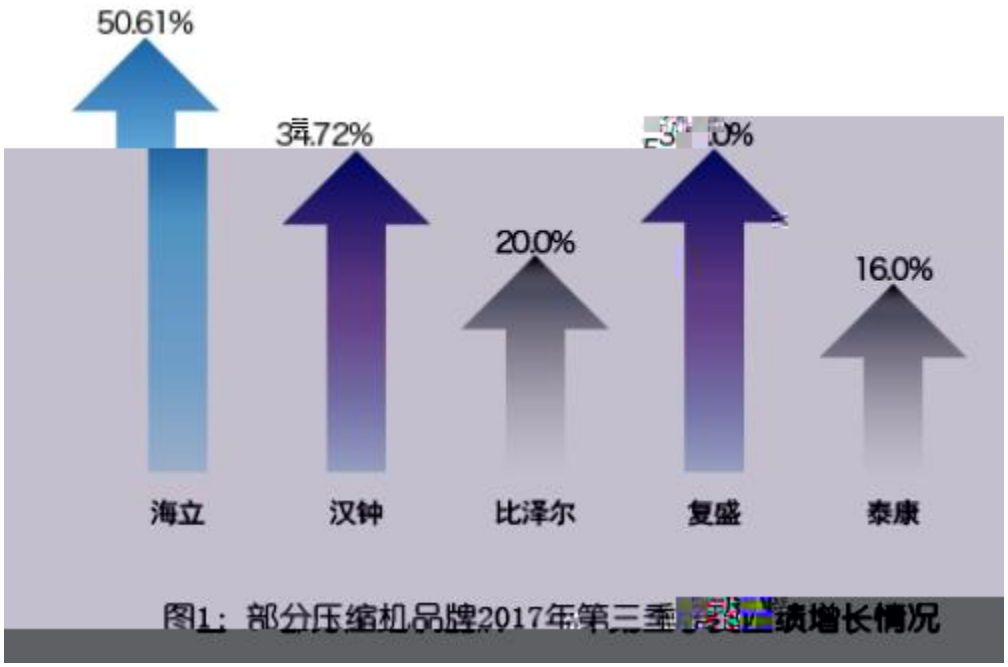

图1：部分压缩机品牌2017年第三季[illegible]业绩增长情况

2017

2017 100%

2017

3-5 10-15

2018

80%

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34.72% 1.34 3.48%

2017

20% 2017 35%

2017 20% 2017 16%

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http://news.ehvacr.com/news/2017/1219/103272.html Top↑

2015 7 1 DuPont Chemours ,

85

Chemours HFO-1234yf

2010 6 3000 HFO-1234yf 2016 3

6000 HFO-1234yf 6000 /

2001 10

ODS

HFC-152a HFC-32

HFC-227ea HCFC-22 HCFC-142b HFO-1234yf

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HFO-1234yf 10000 / 2018

HFO-1234yf 2016

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Solstice® yf

2016

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1- -3,3,3- HCFO-1233zd LBA

(HFC-245cb) HFO-1234yf

2- -3,3,3- (

HCFO-1233xf) HFO-1234yf

HFO-1234yf 100 /

31 2016 12 7

3000

HFO-1234yf

GWP GWP HFO-1243zf,

HFO-1233xf, HFO-1233zd, HFO-1234yf, HFO-1234ze,

HFO-1234yf

HFO-1234yf

2017 1 1 150

HFO-1234yf R134a

2021

http://news.ehvacr.com/news/2017/1228/103358.html Top↑

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2018

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http://news.ehvacr.com/news/2017/1227/103348.html Top↑

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http://hp.hvacrhome.com/news/show.php?itemid=21251 Top↑

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http://news.ehvacr.com/news/2017/1120/103013.html Top↑

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2021 70%

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“2013-2015 PM2.5 1.3

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http://hp.hvacrhome.com/news/show.php?itemid=21515 Top↑

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http://hp.hvacrhome.com/news/show.php?itemid=21598 Top↑

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http://www.chinaiol.com/cold/r/1122/85189314.html Top↑

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6.9% GDP 14.5%

6.3 13.3% 8.6

2017 4775 11937

13.7% CCLC 2017

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http://news.ehvacr.com/news/2017/1220/103288.html Top↑

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http://news.ehvacr.com/news/2017/1218/103267.html Top↑

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104203 4.6% 1-5 0.5 79%

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http://www.cm188.com/news/22368.html Top↑

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| Busch | 42 | 60 |

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http://solar.ofweek.com/2018-01/ART-260006-8420-30192403.html Top↑

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http://solar.ofweek.com/2018-01/ART-260006-8440-30193552.html Top↑

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http://www.semi.org.cn/news/news_show.aspx?ID=51698&classid=117 Top↑

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SEMI 2018-2021 1000

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http://www.semi.org.cn/news/news_show.aspx?ID=51690&classid=117 Top↑

## 26

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JX/Nikko Praxair/MRC Honeywell Electronic Materials Tosoh SMD

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Sumitomo ITO

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http://libattery.ofweek.com/2017-12/ART-36001-8420-30182013.html Top↑

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31485-2015 GB/T 31467.3-2015

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| 序号 | 试验项目 | 适用范围 | 试验方法章条号 |
|---|---|---|---|
| 1 | 过放电 | 锂离子电池单体 | 8.1.2 |
| 2 | 过充电 | 锂离子电池单体 | 8.1.3 |
| 3 | 短路 | 锂离子电池单体 | 8.1.4 |
| 4 | 加热 | 锂离子电池单体 | 8.1.5 |
| 5 | 温度循环 | 锂离子电池单体 | 8.1.6 |
| 6 | 挤压 | 锂离子电池单体 | 8.1.7 |

2

| 序号 | 试验项目 | 适用范围 | 试验方法章条号 |
|---|---|---|---|
| 1 | 振动 | 锂离子电池包或系统 | 8.2.1.1 |
| 2 | 振动 | 锂离子电池包或系统的电子装置 | 8.2.1.2 |
| 3 | 机械冲击 | 锂离子电池包或系统 | 8.2.2 |
| 4 | 模拟碰撞 | 锂离子电池包或系统 | 8.2.3 |
| 5 | 挤压 | 锂离子电池包或系统 | 8.2.4 |
| 6 | 湿热循环 | 锂离子电池包或系统 | 8.2.5 |
| 7 | 浸水安全 | 锂离子电池包或系统 | 8.2.6 |
| 8 | 热稳定性之外部火烧 | 锂离子电池包或系统 | 8.2.7.1 |
| 9 | 热稳定性之热扩散 | 整车或锂离子电池包或系统 | 8.2.7.2 |
| 10 | 温度冲击 | 锂离子电池包或系统 | 8.2.8 |
| 11 | 盐雾 | 锂离子电池包或系统 | 8.2.9 |
| 12 | 高海拔 | 锂离子电池包或系统 | 8.2.10 |
| 13 | 外部短路保护 | 锂离子电池包或系统 | 8.2.11 |

GB/T 31485 GB/T 31467.3 :

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http://china-hydrogen.org/hydrogen/mix/2017-11-23/6953.html Top↑

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2017 12 29 2018 7 1

| | | | | |
|---|---|---|---|---|
| 969 | GB/T 10464-2017 | 葵花籽油 | GB/T 10464-2003 | 2018-07-01 |
| | | 纸和纸板 涂布美术印刷纸(铜版纸) | GB/T 10335.1-2003 | 2018-07-01 |
| | GB 10035-2006 | 气囊 | GB 10035-2006 | 2019-07-01 |
| 972 | GB/T 9971-2017 | 原料纯铁 | GB/T 9971-2004 | 2018-09-01 |
| 973 | GB/T 9851.9-2017 | 印刷技术术语 第9部分：书刊印刷术语 | | 2018-07-01 |
| 974 | GB/T 9414.9-2017 | 维修性 第9部分：维修和维修保障 | | 2018-07-01 |
| 975 | GB/T 9258.3-2017 | 涂附磨具用磨料 粒度分析 第3部分：白刚玉粒P240～P2500粒度组成的测定 | GB/T 9258.3-2000 | 2018-07-01 |
| 976 | GB/T 9237-2017 | 制冷系统及热泵 安全与环境要求 | GB 9237-2001 | 2018-07-01 |
| 977 | GB/T 9101-2017 | 锦纶66浸胶帘子布 | GB/T 9101-2002 | 2018-07-01 |
| 978 | GB/T 9074.32-2017 | 螺栓或螺钉和锥形弹性垫圈组合件 | | 2018-04-01 |
| 979 | GB/T 9074.31-2017 | 组合件用锥形弹性垫圈 | | 2018-04-01 |
| 980 | GB/T 8885-2017 | 食用玉米淀粉 | GB/T 8885-2008 | 2018-07-01 |
| 981 | GB/T 8884-2017 | 食用马铃薯淀粉 | GB/T 8884-2007 | 2018-07-01 |
| 982 | GB/T 8883-2017 | 食用小麦淀粉 | GB/T 8883-2008 | 2018-07-01 |

ISO 5149:2014

GB/T 9237—2017

GB/T 9237—2017 GB 9237—2001 ISO 5149:2014 (Refrigerating systems and heat pumps—safety and environmental requirements)

GB/T 9237—2017

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184.8 6.9% GDP 14.5%

6.3 13.3%

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2017 4775 11937

13.7% CCLC 2017

13.4 1.9

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2011 2016 1662.4

33.0% 2017 2045.6

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28.8 36.16%

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http://www.lenglian.org.cn/news/2017/26040.html Top↑

## 3

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1959 TH16—59 TH17

—59 TH18—59

1959 4L—20/8 3L—10/8 5L—40/8 6L—60/8 7L—

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3m³ /min 1.0MPa

30~40

1

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表2 微型空压机技术经济指标比较

| | 序号 | 型号 | 容积量（$m^3$/min） | 排气压力 MPa | 压缩级数 | 冷却方式 | 转速（r/min） | 轴功率（kW） | 主机净重（kg） | 比功率（kW/$m^3$·$min^{-1}$） | 主机比重量（kg/$m^3$·$min^{-1}$） | 润滑油消耗量（g/h） | 备注 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 中国 | 系列产品 | 1 | Z-[illegible] | 0.[illegible]04 | 0.7 | 1 | 风冷 | 1,370 | 0.61 | 6 | 15.2 | 150 | 5 | 实测值，比重量为Z-0.025/6的18.8% |
| 国 | 被取代产品 | 2 | Z-0.025/6 | 0.025 | 0.6 | 1 | 风冷 | 700 | | 20 | 20 | 800 | | 实测值 |
| 民德 | | 3 | 1ST 52a | 0.05 | 1.0 | 1 | 风冷 | 950 | 0.45 | 13 | 9.0 | 260 | | 民德国标TGL-1153 |
| 中国 | 系列产品 | 4 | Z-0.15/7 | 0.154 | 0.7 | 1 | 风冷 | 1,460 | 1.282 | 18 | 8.32 | 107 | 4 | 实测值，比重量为T102的33.1% |
| | 被取代产品 | 5 | T102 | 0.12 | 0.8 | 1 | 风冷 | 610 | 1.0 | 42 | 8.33 | 323 | 11 | 实测值 |
| 阿曼 | | 6 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 1,060 | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

9m³ /min

5.15 1.5

3

“ ”

80% 60%

90mm 11mm

112mm 2VY—4.5/7 2VY—6/7

—— 2V—4.5/7 2V—6/7 2V—4.5/7 $3m^3$ /min

2VY—6/7

2VY—6/7 ——2V—6/7

2VY—6/7

2VY—6/7 6m³ /min W 6

370kg 600kg 38.4%

56%

4

表4 2VY-6/7型与被取代的老产品技术经济指标比较

| 序号 | 型号 | 主机结构 | 冷却方式 | 额定容积流量(m³/min) | 额定排气压力(MPa) | 额定转速（r/min） | 行程（mm） | 气缸数×缸径（mm×mm） | | 比功率(共扇)(kW/m³·min-1) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 一级 | 二级 | |
| 1 | 2VY-6/7 | V型，2缸 | 风冷 | 6 | 0.7 | 1,500 | 112 | 1×240 | 1×140 | 约6.5 |
| 2 | 2W-6/7 | W型6缸 | 风冷 | 6 | 0.7 | 1,225 | 102 | 4×140 | 2×115 | |
| | 主机净重 | | 加工工时 | | 零件数 | | 材料类别 | | 生产成本 | |

2VY—6/7

10

20 40 90m³ /min

20m³ /min 10m³ /min

20m³ /min “ ” 10m³ /min

TH16—59 3 6 10 20 40 60 100m³ /min

20m³ /min

4L—20/8

TH16—59

L 5L—40/8 6L—60/8

7L—100/8



7L

表5 动力用固定式水冷L型空压机系列参数

| 空气压缩机型号 | L2-10/8 | L3.5-20/8 | L5.5-40/8 | L8-60/8 | L12-100/8 |
|---|---|---|---|---|---|
| 活塞力（kN） | 20 | 3.5 | 5.5 | 80 | 120 |
| 额定排气压力（MPa） | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 额定排气量（$m^3$/min） | 10 | 20 | 40 | 60 | 100 |

L

GB762—65

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L8—60/8

L2—10/8 4.663kW/m

³ · min-1 0.8MPa

L3.5—20/8

500

L3.5—20/8 3L—10/8

3L—10/8 500

L3.5—20/8 4L—20/8 2.2t 2.6t 400kg

4L—20/8 650kg L3.5—20/8 —

— 210kg

L3.5—20/8 4L—20/8 840kg 4L—20/8

L3.5—20/8 L3.5—20/8

4L—20/8

L5.5—40/8

500



上海漢鐘精機股份有限公司

9BSTJET EMC /P <MCID 13>BDC BT/F1 12 Tf1 0 0 1 129.86 339.49 DC .84L5.TJET EMC /P <MCID 118>BD3 BT/F3 1

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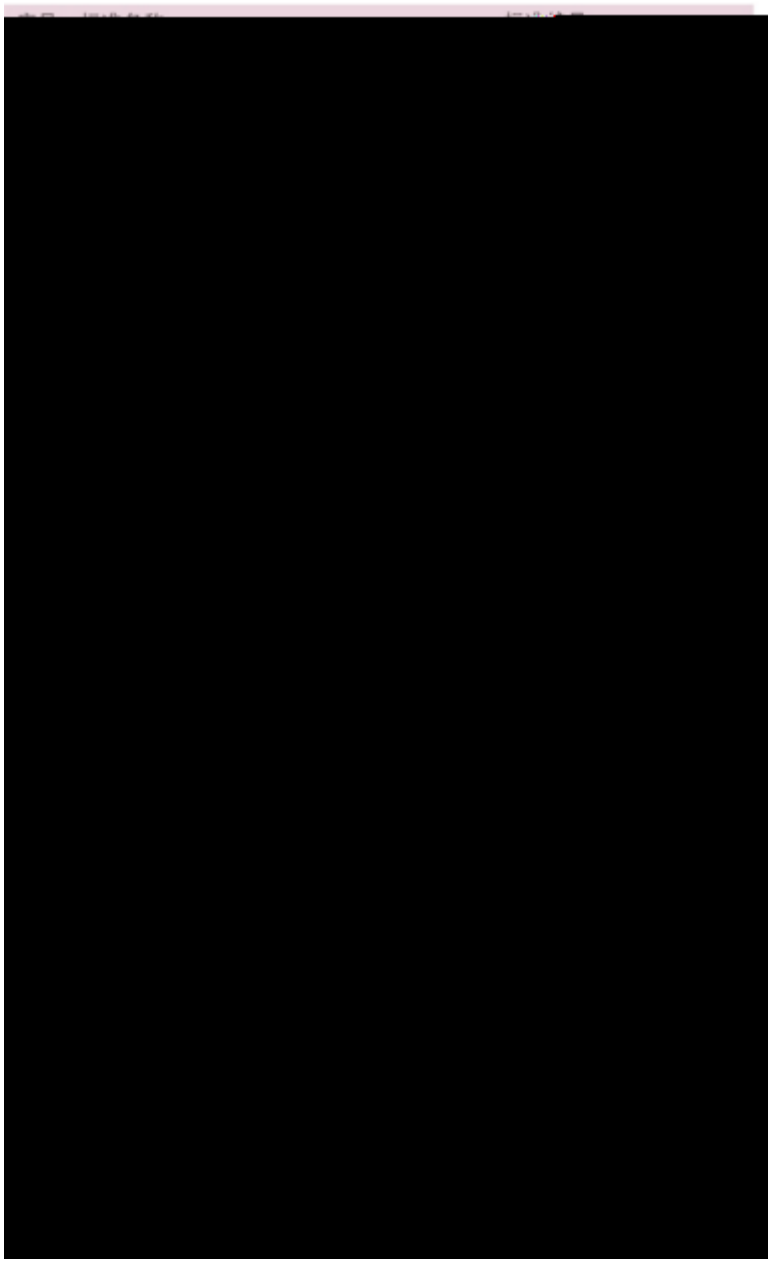

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2 ≥ 80kW ≥ 5000h 30 ≥ 180km/h 0-100km/h ≤ 12 ≤ 14 SUV ≥ 30% ≥ 650km ≤ 1.0kg/100km ≤ 1.2kg/100km SUV ≤ -20 ≥ 5000km 1

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70MPa -

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2

≥ 30kW ≥ 55% ≥ 10000h ≥ 160km/h 30 ≥ 120km/h 0-100km/h ≤ 12 ≤ 14 SUV ≥ 30% ≥ 450km ≤ -30 ≥ 5000km 1

3

1

≥ 30kW ≥ 55% ≥ 10000h

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≥ 50kW ≤ -30 ≥ 10000h ≥ 1000h 0-50km/h ≤ 20 ≥ 15% 12 ≤ 7.5kg/100km ≥ 400km SOC ≤ 10%

≥ 10

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≥ 5000h ≥ 1500h

≥ 40000km ≥ 5000km

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UNDP

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http://china-hydrogen.org/hydrogen/mix/2017-12-11/7058.html Top↑

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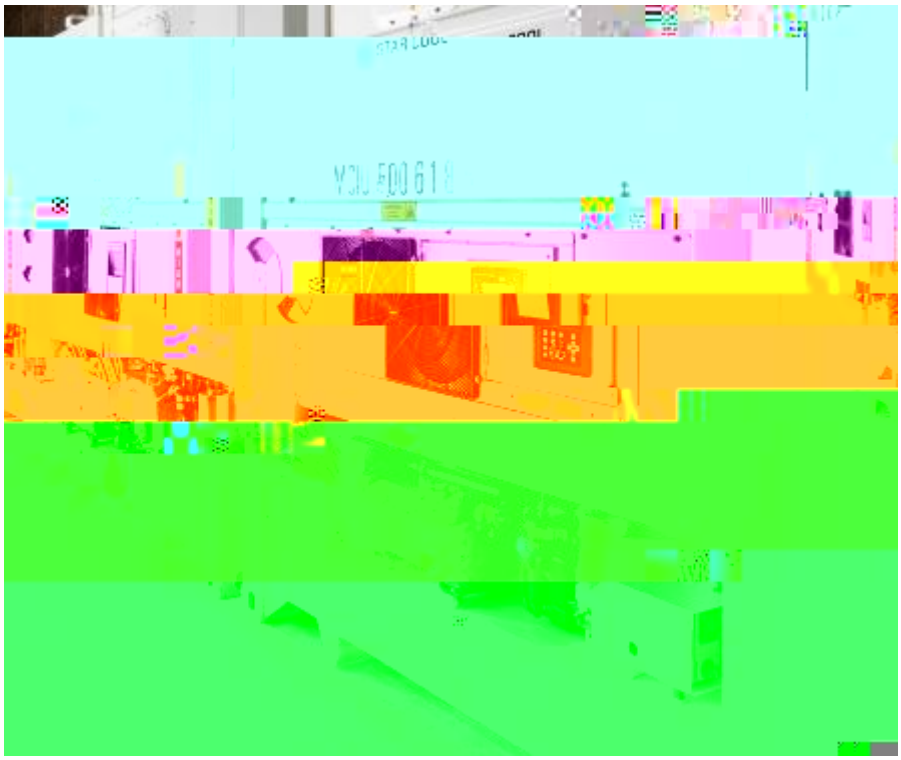
Gianni Parlanti

Lars Heineke

Star Cool™ Star Cool™

Lodam Star Cool



15 Star Cool™ 40

25

Star Cool™

Oliver Rathfelder “Star Cool

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—— ” Gianni Parlanti

“ Star Cool™

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Soren Leth Johannsen

2016 3400

6.8 www.bitzer.cn.

MCI

MCI Star Cool™

Star Cool Integrated™

CA 5000

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http://cac.chinaiol.com/r/1122/71189306.html Top↑

6

, ±0.1

20-600RT 20Hz-80Hz

: IPLV 7.8

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R134a ODP 0

http://cac.chinaiol.com/r/1219/94190402.html Top↑

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http://cac.chinaiol.com/r/1227/40190744.html Top↑

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http://www.compressoronline.cn/index.php?m=content&c=index&a=show&catid=107&id=7562 Top↑

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6-Sigma TPM

TQM QC ISO9001 ISO14001

IE3

IE4

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IE4

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http://www.compressoronline.cn/index.php?m=content&c=index&a=show&catid=107&id=7554 Top↑

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http://www.compressor.cn/News/hykx/2018/0101/101809.html Top↑

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(Asslar)2017 12 7 2017 9 9

(LIP) (Asslar)

LIP

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2017 10 17 LIP-

LIP “ 2025 ”

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Vic Chen

http://zixun.ibicn.com/d1332486.html Top↑

## 19 “ ” — TwisTorr 704FS

TwisTorr 704FS

“ ” TwisTorr 704 FS

0.0001Pa 0.00001Pa

0.00000001Pa

GC/MS LC/MS ICP/MS TOF…

SEM TEM FIB

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“ ” “ ”

TwisTorr

“ ” N 1 176.69 3A





A F

TwisTorr 704 FS

“ ” No.4 “ 3D ”

2D

704FS

3D

704FS 804FS 404FS 84FS 304FS

http://zixun.ibicn.com/d1335498.html Top↑

## 20 CCTV 1

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VRD

http://zixun.ibicn.com/d1335002.html Top↑

## 21 Busch 2017

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2017 12 6 9 ·

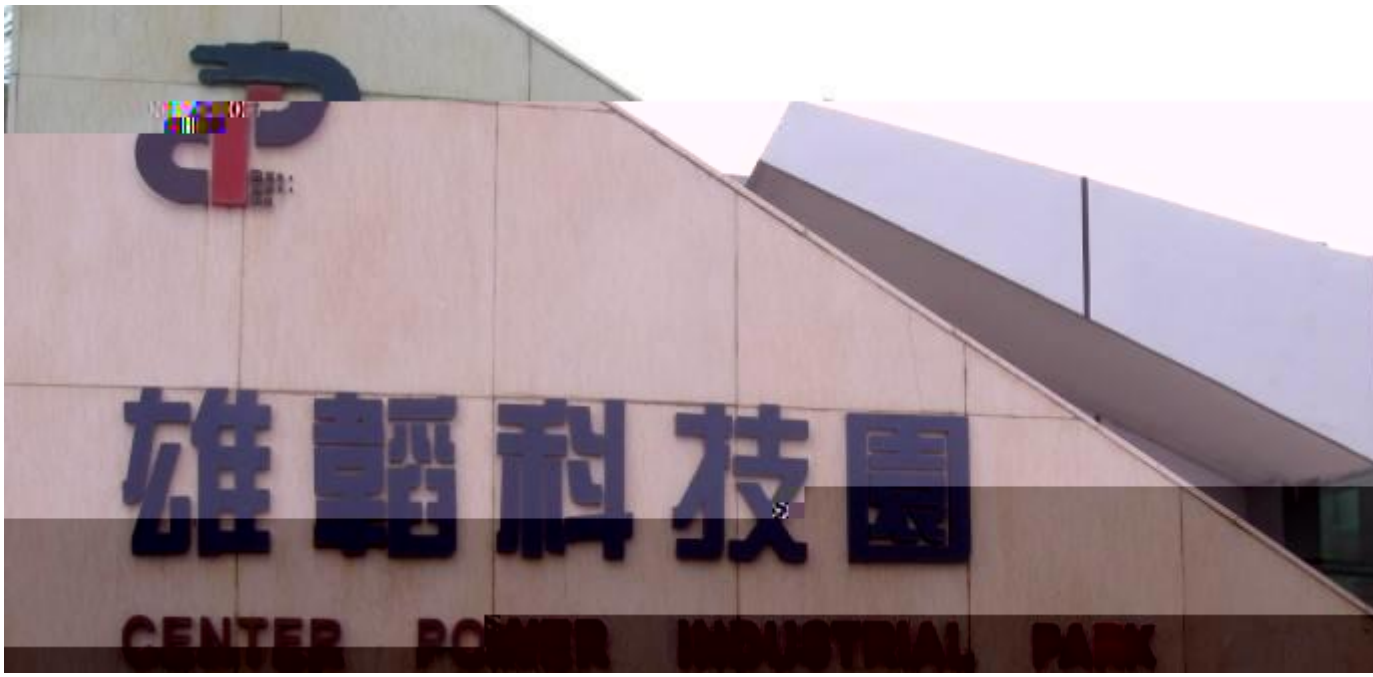
W29

Busch Mink MA 0018 A WR 0070

Busch Busch

info@busch-china.com

http://www.chinesevacuum.com/portal.php?mod=view&aid=50 T




150 15

3 5 2

3000 5000

2018 1 4 2018

10

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http://libattery.ofweek.com/2018-01/ART-36007-8460-30186675.html Top↑

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1 : , ---

2017-11-01

, 2015 ,2017 1~3Q

9.5 / +34.72%, 1.34 / +3.48%; 0.252

3.9 / +45.23%, +15.68%; 5111 / +6.34%,

-12% , 2017 1~3Q 32.54%, 2016

3.75 , 30.55%, 5.61 , 3.27

,

2017 1~3Q 16.72%, 2016 ,

11.68%, 0.68 ; 5.46%, 0.23 ,

2016 ,

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2017~2019 1.66 2.14 2.83 ,EPS 0.31 0.4 0.53 ,PE 45 35 26

, , 2016~2018

1.67 1.913 2.071 , 2017~2019 2.06

2.37 3.34 ,PE 36.5 31.7 22.5 , PE

35~40 , , 2018 35~40 PE,

15.7~17.9 / ,

http://stock.qq.com/a/20171101/030187.htm Top↑

2 ---

2017-11-01

(002158)

2017 3Q 9.51 34.72% 1.34

3.84% 0.25 /

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1

17 3Q 9.51 34.72% 2637

120.77% 14 Q3 3.92 45.23%

17Q1-2 33% 25%

2

3Q 1.34

3

2017-11-06

(2017—2020 )

2020 3 2020

2260 1696

http://www.compressor.cn/News/scdt/2017/1107/100558.html Top↑

5 ---

2017-11-06

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80% Top↑

## 6

2017-11-08

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2017

1998 2000

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http://bao.hvacr.cn/201711_2073932.html?from=timeline Top↑

7 “ ”

2017-11-13

11 9 “ ” 19

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? IAQ

IAQ

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“ ” 300

16 “ ” 8 “

” 8 “

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http://www.compressor.cn/News/qyzc/2017/1113/100661.html Top↑

2017-11-20

2017 11 17 13 50 002158 5.05%

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e{ 7.09%

2017-11-16 54994.01 3923.64

25.19 2.1

2017 9 30 9.51 1.34

0.25 63.08

2 1

22.22%

2 1 1 50.00%

50.00%

2.26%

10.0% 10.0% 10.0%

37.5% 33.5% 28.3%

10

23.3% 24.5% 1-9

2.6

PPP

10 10541

81% 80% 17Q3

6.4 17Q2 55% 311

31.4 15%

3 3500

“ ” 95%

2020

7000 2015 2.5 2600

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12

11 -5.32% -5.49% 300 -0.02%

□. . . . . Top↑

## 13 :

2017-12-06

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5.94 3303.68 159.79

10854.76 39.18 1758.59

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0.18% 2435 1.45% 2392

2.18% 14 23

K 50

8-9 5 10

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100% 5%

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57

2.156%

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62.5 Top↑

14 | VS

2017-12-12

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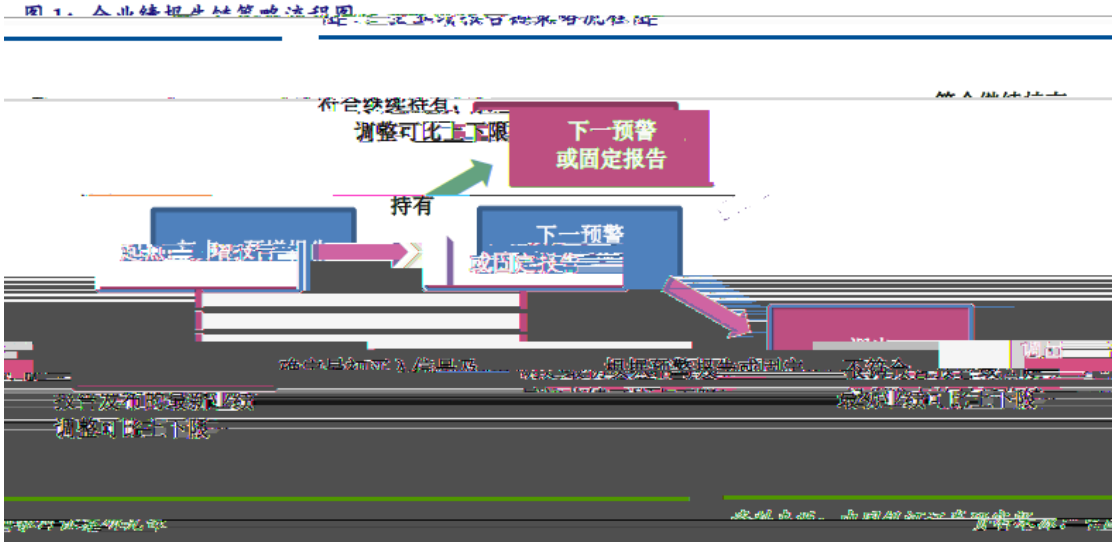


-2.28% 500 -0.49%

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16 “ ”

2017-12-15

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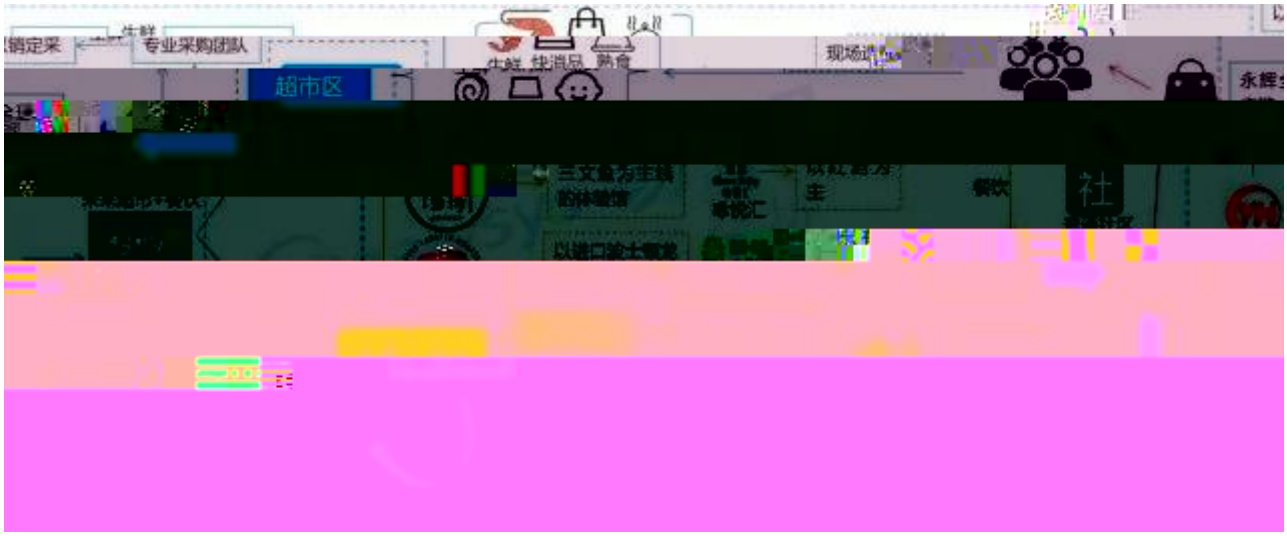


—— “ ”

0.07

0.36 0.33 1/11

" " 2010

4.2 2016 913.9 2015 80% 2017

1500

2016 3.36

6762 20% 10 8.07%

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PEG PE

28.58/31.42=0.9

7000 80 100 650 1200

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|---|---|---|---|---|
| 1 | 002011 | | | 4.0 |
| 2 | 000404 | | -- | -- |
| 3 | 300263 | | | OLED |

4 300217

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|---|---|---|---|---|
| 8 | 002413 | | | |
| 9 | 000811 | | 35% | |

Top↑

18 255 150.39

2017-12-28

(600167, ) 58.65

(600129, ) (600836,

) 20

255 12.56 150.39

(300033, ) (300096,

) (000078, ) (600966, ) 4145 3830

3004 (002158, ) (002063, )

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20

13.69% Top↑

19 100

2017-12-26

12 22 · · 2016

2017 2017

100 130 170

2017

2017 TOP3

2017 47%

42%

88% 669%

2017

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12 22 2018

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2018

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CO2 90 -25

5% 80%

-35

CO2

R410a

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20

80% 45%

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1.5

50% 2020

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