

emily_huai@hanbell.cn
ir@hanbell.cn

021-51365368

1.

2. 2013

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5. 2013

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7.

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9. 60

5

10. 2013

11.

12. “ ”

13. “ ”

14.

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- 16. “ ”
- 17. 45
- 18.
- 19.
- 20.
- 21.
- 22. 2013
- 23.
- 24. 11%
- 25.
- 26.
- 27.
- 28.
- 29.
- 30.
- 31. 2013
- 32.
- 33.
- 34.
- 35. 72
- 36.
- 37. 6663 70

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9. 2013 21

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31. EDWARDS

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20016

5.25%

28.14

9.87%

15.68%

2013 4 Top↑

2 2013

2011-2015

2013

1%(300)

2

40%

1

3000

2-3

2

4000

3

1000

3000

4

300

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IGBT

6

IEC

3

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4

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3

R22

R290

R32

R410A CO₂ NH₃ R290 R32

R134A R410A

TCL

2011 7 R32 R290 R161

R290

2012 8

R32

VDE

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R290

R290 R600

R290

R290

http://bao.hvacr.cn/201305_2035876.html

Top↑

4

UNIDO

ATMOsphere

CTA

CO2

CO2

CO2

TorbenFunder-Kristensen

CO2

4000 CO2

20%

CO2

CO2

Torben

Verdemar

2010

CO2

CO2/R134a

HFC

4%

CO2

LotharSerwas

586

CO2

347

HFC/CO2

60

17

Serwas

Serwas

CO2

MichaelEnglebright

CO2

CO2

PicknPay

CO2

R134aMT/CO2DxLT

CO2

CO2/R404a

22.26%

CO2

1000

CO2

CO2

CTA

CalebNelson

CO2

100%CO2

CO2/HFC

CO2

CO2

100%CO2

15

http://www.chinahvacr.com/News/Class1/201306/News_3094109.shtml

Top↑

5 2013

2013

2012

2012

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2012

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1-4

2012

2013

http://www.chinahvacr.com/News/Class1/201306/News_3094155.shtml Top↑

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2013 ,

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2013

http://www.chinahvacr.com/News/Class1/201306/News_3094152.shtml Top↑

7

2013

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26.5

322.12

50%

161.06

1/5

50%

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20%

15%

2010

1%

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http://www.chinahvacr.com/News/Class1/201306/News_3093955.shtml

Top↑

8

2012~2016

“ ”

http://www.chinahvacr.com/News/Class1/201306/News_3094113.shtml Top↑

9

60

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60

46% 2011

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6

45

75

40

25 50

280

60

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http://www.chinahvacr.com/News/Class1/201306/News_3094108.shtml

Top↑

10 2013

2012

2012

32.8

5.81%

2011

2012

2013-2017

http://www.chinahvacr.com/News/Class1/201306/News_3094080.shtml

Top↑

12

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2013 6 8

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http://www.chinahvacr.com/News/Class9/201306/News_3093689.shtml Top↑

13

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10 20

5 10

2000

1000

60 70

15% 25%

260

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1

8%

10

28%

30%

20% 80%
;
90%
0.3%
500 3
4 -5

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http://bao.hvacr.cn/201305_2035696.html Top↑

15

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http://bao.hvacr.cn/201306_2036704.html Top↑

16

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42251

42252

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120

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-18

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http://bao.hvacr.cn/201307_2037330.html Top↑

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16%—23%

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2013-2017
2008-2010
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http://www.chinahvacr.com/News/Class1/201306/News_3094060.shtml

Top↑

21

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http://www.chinahvacr.com/News/Class1/201306/News_3094008.shtml Top↑

22 2013

<http://news.163.com/13/0408/02/8RTH656K00014JB5.html>

Top↑

23

2010-2011 28% 8%

2009 400

90% 60 40%;

10% 90 60%

<http://www.compressor.cn/News/hyx/2013/0617/69322.html> Top↑

24

11%

2013

11%

ALMiG

“ ”

5%

11%

<http://www.compressor.cn/News/hyqx/2013/0614/69301.html>

Top↑

25

2010-2011 28% 8%

2013 7 15

标准名称	起草单位	联系人
容积式压缩机流量测量方法	合肥通用机械研究院	肖矛 xm-comp@sohu.com

ysjzb@126.com

<http://www.compressor.cn/News/hyqx/2013/0608/69231.html> Top↑

27

<http://www.compressor.cn/News/hyqx/2013/0529/69108.html> Top↑

28

M?/,\$4,FB@e\$50 R iE pGã E KR ì©c 0 0€\$BL> |ÑFÛÜ&v4µë D0 a'OE0&qÆ

“10—15 ”

SCR() GTO()
) BJT() MOSFET() SIT()
) SITH() MGT(MOS) MCT(MOS)
) IGBT() HVIGBT()
)

<http://www.51touch.com/hmi/news/dynamic/201304/03-20961.html> Top↑

29

6 21

“ ”

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50

<http://www.zkjsysb.ibicn.com/news/d868902.html>

Top↑

30

<http://www.zkjsysb.ibicn.com/news/d874315.html>

Top↑

31 2013

2012							7GW	
2013			OFweek				2012	
							2013	
			2013					
			2013			5GW		
30%								
		FIT		2012	4	1	2012	10
	1%	2012	11	2013	7			
						2013	8	
12								EEG
	2012	7	2013	3				5.3GW

280.6

2012

4.7%

11%

2020

10%

OFweek

2013

5GW

30%

<http://www.zkjsysb.ibicn.com/news/d880467.html> Top↑

32

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3—4

1/3—1/10

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1/3—1/10

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600—700

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<http://www.zkjsysb.ibicn.com/news/d877722.html>

Top↑

33

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2012 10

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1170 6 195

380 /220

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1460

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25

36500

14.6

36

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10

0.5

8

<http://www.zkjsysb.ibicn.com/news/d840465.html> Top↑

34

3

<http://www.zkjsysb.ibicn.com/news/d882357.html> Top↑

35 72

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”7 17

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6 10

6 21

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7 12

2014

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John Clancy

8 6

11.8% 47.6%

12

66

0.5-0.57 / “ 6

10

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0.6-0.7 /

0.5-0.54 /

10GW 10GW

10GW

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8 6

47.6%

“

30% 47.6% 30%

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——

8 6

7

7

10

330

40

7

4

1GW

http://www.semi.org.cn/pv/news_show.aspx?ID=12379&classid=12

Top↑

36

<http://www.zhenkong.info/news/html/Market/9850.html> Top↑

37	6663	70						
3	28			2013		70		
		6663		20		16		
		14			5			8
		7						

2013

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70

6663

2013 8

21

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60000

1500

30

80000

http://www.alu.cn/aluNews/NewsDisplay_863239.html Top↑

2013

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1~3

13.25% 18.92%

15.61% 21.87%

2013

5000

2013

2012

2013

“ ”

2013

2013

2013 4

80

22

3

2013 1

HÈ Ð =5 1⁻ — ø È -ô ÊÂ% ? Ü± E—

“ ”

2015

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2014

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2015

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2015

1000

12%

2013 2

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http://www.chinahvacr.com/News/Class2/201305/News_3093029.shtml Top↑

6

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2012—2016

750

20%

750

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http://www.chinahvacr.com/News/Class1/201306/News_3094132.shtml Top↑

7

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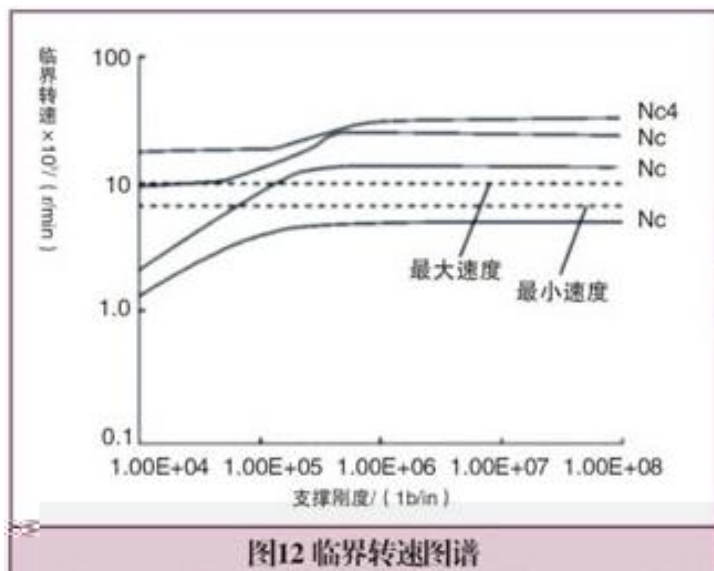
40

Myklestad

Prohl

Myklestad-Prohl

NC₁



1965 5 J.W.Lund

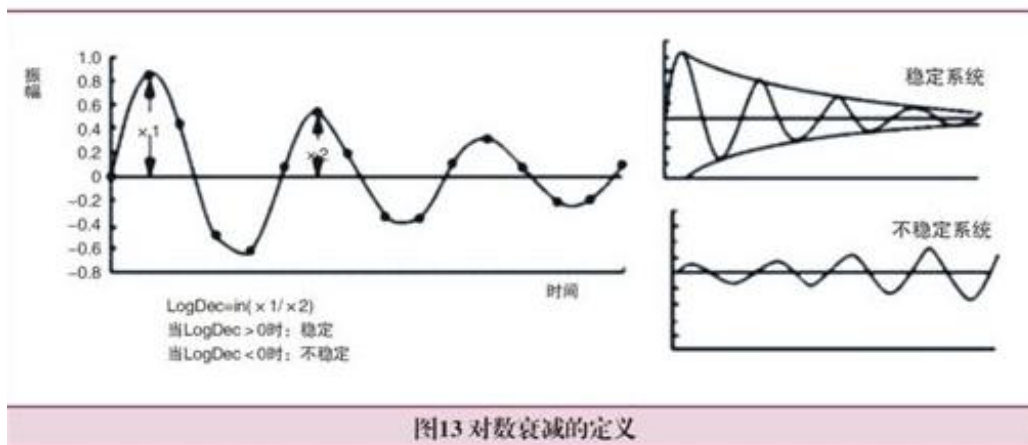
20 70

1974 Lund

Lund

Lund

13.

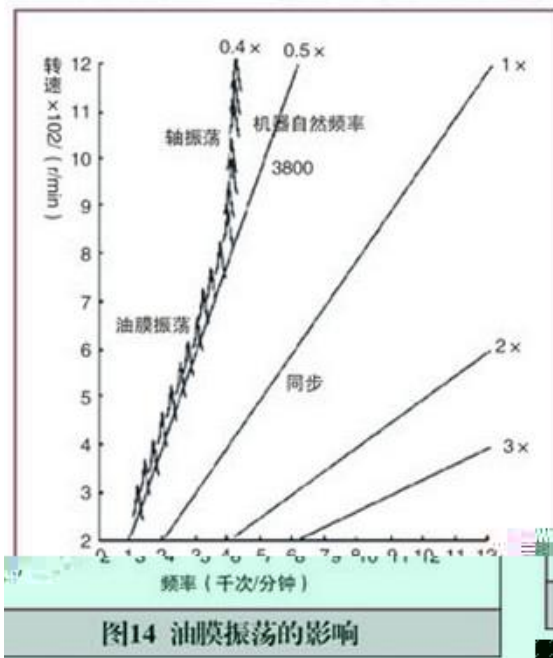


20

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1905

907

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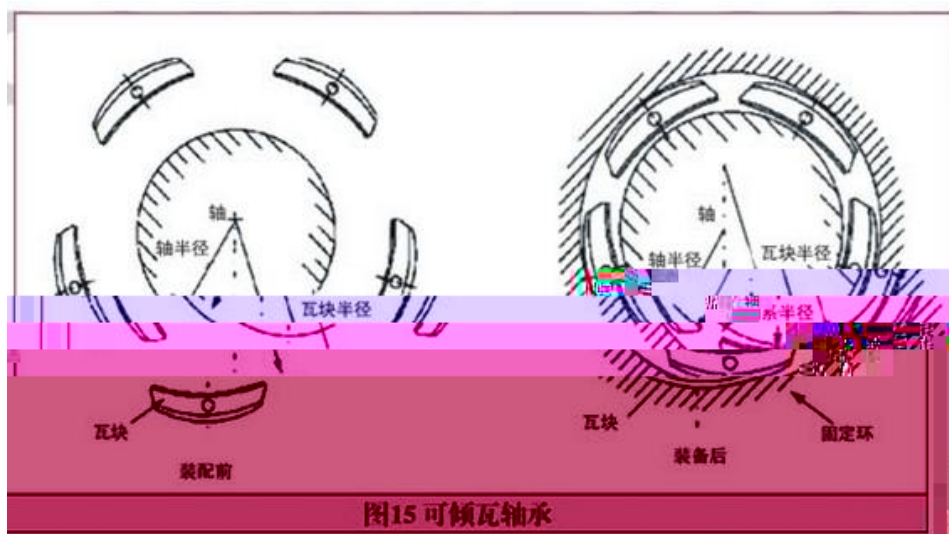
20

60

1964

63.5mm

Waukesha



174m/s 570ft/s

5434kPa 775PSI

20 70 80

20

90

20 10

CH₄

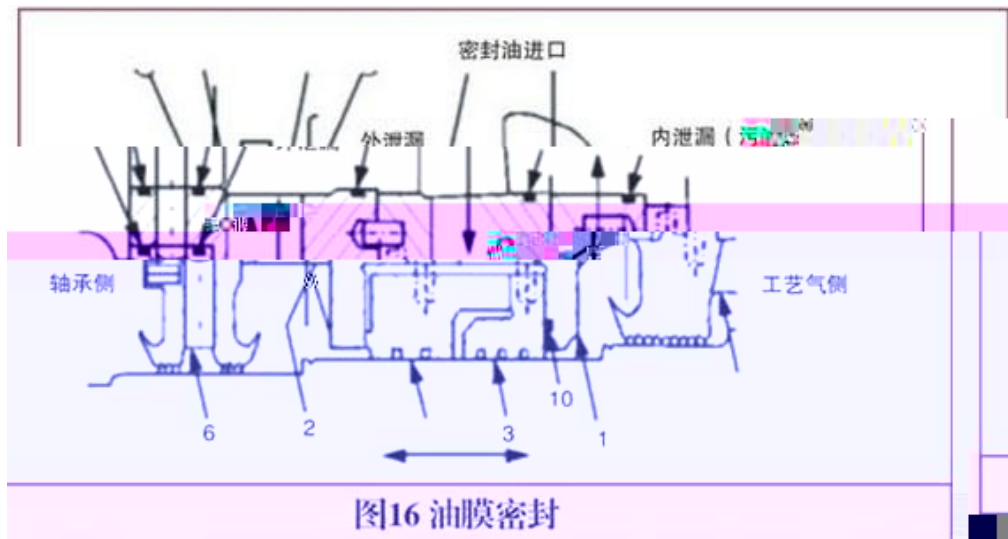
16 20 50

H₂S

20 70

80

20 70



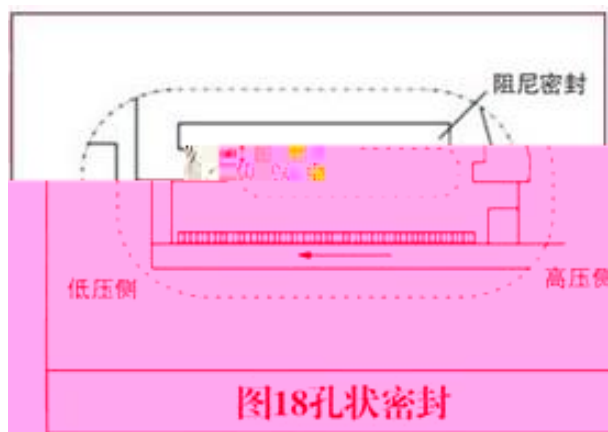
DGS

1962

250bar 3625

PSI

400bar 5800 PSI



FEA

IGVs

(LSDs)

0.17~0.18

20 50

19.

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8

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20

25%

40%

76%

1)

2001 2007

20% 2008

2009-2010 15%

20%.

2)

18%

3

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4

10%

2008

2006 -2010 30%

10%

5

9.5

12.9%

2.19

18%

2008 -2010

2

5

76%

2				
		%		%
2008	40	10.5	10.2	-2.1
2009	45	12.5	10.6	6.5
2010	53	17.8	11.1	7.7

IHI

91%

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5		
1	1	
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	3	IHI
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	5	
		95%
		5 91%
1	1	
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1	JB/T 11420-2013		2.2kW 315kW		
2	JB/T 11421-2013		1.0MPa, 2.2kW 5.5kW		
3	JB/T 11422-2013		25 MPa		
.....

10

2013 30

[2009]213

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[2012]851

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2

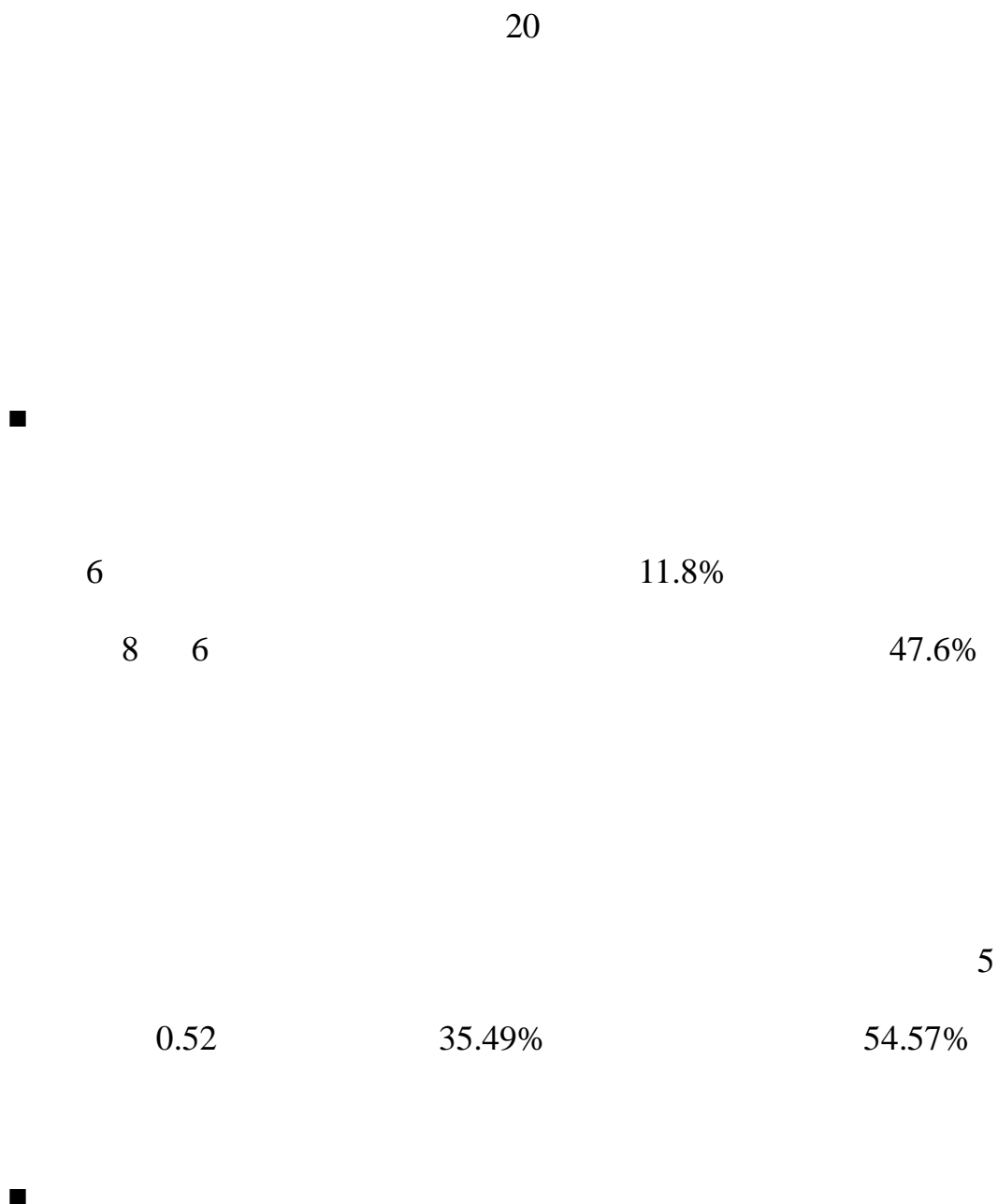
www.ndrc.gov.cn

;.xls

2013 5 21

<http://www.compressor.cn/News/hyqx/2013/0604/69179.html>

Top↑



	[10.00%]	6.71		
	[7.49%]	[5.08%]	5%
	[4.53%]	[4.21%]	[3.27%
]	[3.14%]	3%		

http://www.semi.org.cn/pv/news_show.aspx?ID=12364&classid=12 Top↑

12

" "

				30%
			2010	
	500	1732		1190.58
36.24%		77.89		50.30%.

450

5000

20%-25%

KSB

10

2010

15.94%

ASERCOM

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2010 11 30 550

2012 3046

6.39

<http://info.hvacr.hc360.com/2013/07/151122499474.shtml> Top↑

2. :

2008

2013

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19

1934

CRAA	CCAP	19	2010
	2012		2013
		2012	
20 000	38 00		
			2012 163 000
2013	200 000	2014	250 000

2013

MarcusLoistl

MichaelBauer

MarcusLoistl

MichaelBauer

2013

RainerGro ße-Kracht

2013 HCFC

R22

ECOLINE

5 21

“ ”

2000

30%~50%

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50%

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45%

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http://www.chinahvacr.com/News/Class9/201306/News_3094148.shtml Top↑

4. :

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http://www.chinahvacr.com/News/Class9/201306/News_3093981.shtml Top↑

5.

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http://www.chinahvacr.com/News/Class9/201306/News_3093958.shtml Top↑

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2013 6 18

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488

340

AVC

34%

21%

15%

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http://www.chinahvacr.com/News/Class9/201306/News_3093792.shtml Top↑

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2012

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http://www.chinahvacr.com/News/Class9/201306/News_3093666.shtml Top↑

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Soleus

Soleus

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Soleus 2012

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http://www.chinahvacr.com/News/Class9/201306/News_3093960.shtml Top↑

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473.4

59%

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http://www.chinahvacr.com/News/Class9/201306/News_3093619.shtml Top↑

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http://bao.hvacr.cn/201306_2036725.html Top↑

11.

Anatolii Mikhailov

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Anatolii

NH3/CO2

R22

http://bao.hvacr.cn/201305_2035945.html

Top↑

12. 2013

2013 4 10 24

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1934

Martin Bitzer

2012

3046

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Michael

Bauer

Stephan Luerssen

1994 2010 6500 2013

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—BRT

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Lumikko

Michael Bauer

——Green Point

2013

Green Point

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Green Point

Green Point

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Rainer Grosse-Kracht

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ODP

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R134a ECO-LINE

2013 HCFC

Grosse-Kracht

ECOLINE

Stephan Luerssen

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http://bao.hvacr.cn/201305_2035880.html Top↑

13.

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http://bao.hvacr.cn/201306_2036307.html Top↑

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http://bao.hvacr.cn/201305_2035710.html Top↑

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GA500 GA250 GA110 GA55

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2012 12

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GA500/250

GA110

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2012

Boomer

Boltec

Diamec

<http://www.compressor.cn/News/qyzc/2013/0702/69517.html>

Top↑

17.

, 2013 7 8

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2003

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2012

Michael

W. Lamach

Paul Camuti

2011
148 23%; 2008 13%(
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25%

<http://www.compressor.cn/News/qyzc/2013/0710/69582.html> Top↑

18.

2013 07 05 ()

<http://www.compressor.cn/News/qyzc/2013/0710/69586.html> Top↑

19.

784 20) (2012

<http://www.compressor.cn/News/qyzc/2013/0703/69513.html>

Top↑

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<http://www.compressor.cn/News/qyzc/2013/0704/69522.html> Top↑

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KE450-95V-1-50 KE185-95V-1-50 ORC

ORC

ORC

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KE450-95V

450kW 20 C

350kW KE185-95V

185kW 20 C

138kW

300

KE185-95V

35 C

150kW

120kW

26 C

160kW

130kW

20 C

138kW

100 C

2.5

12 ;

35 C

KE450-95V-1-50 ORC

KE185-95V-1-50 ORC

KSGe469/150

KE450-95V KE185-95V

2500

<http://www.compressor.cn/News/qyzc/2013/0712/69601.html> Top↑

22.

5 25

DAHLAN ISKAN

ORC

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ORC

ORC

6 7 DAHLAN ISKAN

ORC

6 8

<http://www.compressor.cn/News/qyzc/2013/0710/69591.html> Top↑

23. .

2013 6 Wilrijk

(uAIR)

GA-MED

MED+

(uAir) 6 2

1 ES-Medical

uAIR

ISO7396-1

/

HorstWasel

GA-MED

GAMED

GAMED

ISO9001 ISO14001 ISO1217(3 C)

GAMED

MED+

MED+

93/42/EEC

MED+ 7

MED+

() 70%

ES-Medical

ES-Medical

ES-Medical

ISO7396-1

ES

ES6

<http://www.compressor.cn/News/qyzc/2013/0625/69428.html>

Top↑

24.

VT

Class0

VT

Class 0

VT

Vinyl chloride

4% 22%

API

2013 5 2

Saltus-Werk Max Forst GmbH

Saltus 1919 65 2012 800
7000

2013 4 12

<http://www.compressor.cn/News/qyzc/2013/0520/68990.html> Top↑

27. [Rapid-Torc](#)

2013 4 23

Rapid-Torc

Rapid-Torc

30 2012 1100 7500

2013 3 12

Rapid-Torc

<http://www.compressor.cn/News/qyzc/2013/0509/68854.html> Top↑

28.510

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<http://www.zkjsysb.ibicn.com/news/d868933.html> Top↑

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<http://www.compressor.cn/News/hyxx/2013/0526/69081.html> Top↑

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2013 8 1

<http://www.zkjsysb.ibicn.com/news/d830541.html> Top↑

31.

EDWARDS

2013 5 20 -----

EDWARDS

EVAC 5 15-17

Edwards

Edwards

RV

nXDS

nEXT

Edwards

Murray Liston

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Edwards

Edwards

25

240

120

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“Edwards

Edwards

”

Edwards

Edwards

GXS

GXS

iXL120

“ ”

STP

T-Station 75

EXT75DX

T-Station

Edwards

T-Station

Edwards

nXDS6i

nXDS

Edwards

<http://www.zkjsysb.ibicn.com/news/d845783.html> Top↑

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<http://www.zkjsysb.ibicn.com/news/d855365.html> Top↑

1. 20

2013-05-14

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http://bao.hvacr.cn/201305_2035813.html

Top↑

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2013 6 30

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<http://sc.stock.cnfol.com/130529/123,1764,15207267,00.shtml>

Top↑

3. 7 ()

2013-05-31

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<http://finance.sina.com.cn/stock/hyyj/20130531/120315655483.shtml>

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<http://stock.10jqka.com.cn/comment/535209715.shtml>

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<http://finance.qq.com/a/20130628/014135.htm>

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<http://stock.stockstar.com/JC2013060400003651.shtml>

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<http://www.shanghai.gov.cn/shanghai/node2314/node2315/node15343/u21ai754623.html>

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http://bao.hvacr.cn/201306_2036585.html

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<http://stock.stockstar.com/JC2013062400001124.shtml>

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14. ： ，

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<http://www.cfi.net.cn/p20130624000829.html>

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