

Report from Certification Committee 2021

ASERCOM Annual Convention 2022

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**Chair ASERCOM Certification
Programme**

28th April 2022

Agenda

- **Report from Certification in 2021**
 - Participants
 - Facts and Figures
 - CU Certification Statistic
 - Audits
 - Outlook
- **Certification Software Tools**
- **Summary**



Report from Certification in 2021

CC Members



BOCK



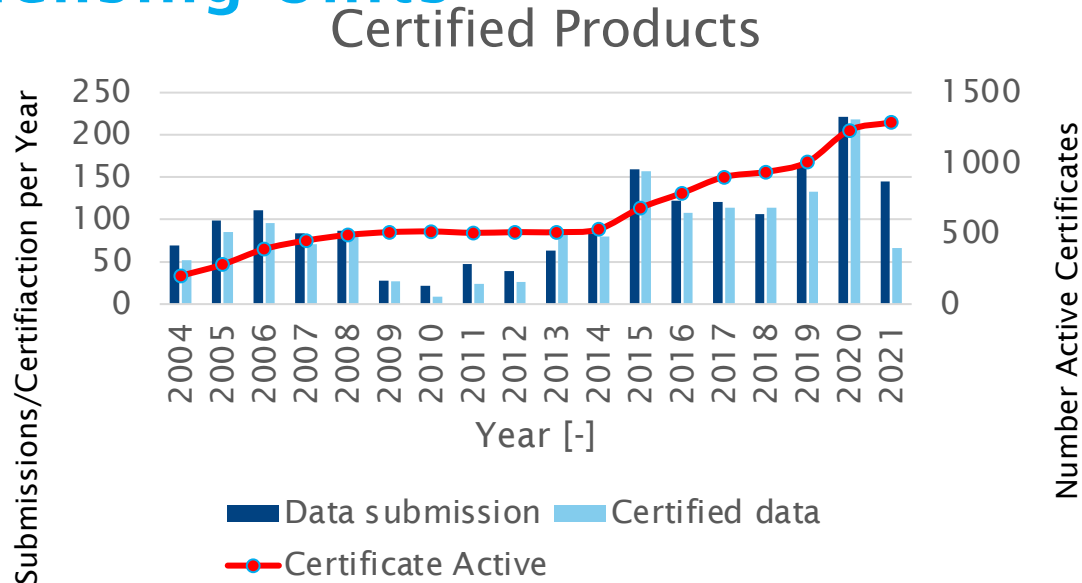
embraco



frascold



Certification Figures 2021 – Compressors and Condensing Units



- **145 sets of data submitted in 4 batches**
- **66 compressors and condensing units certified**
- **On average 8% of submitted products are tested**
- **1288 certified products active**

ANALYSIS OF CU IN CERTIFICATION

Status: 2022_01_27

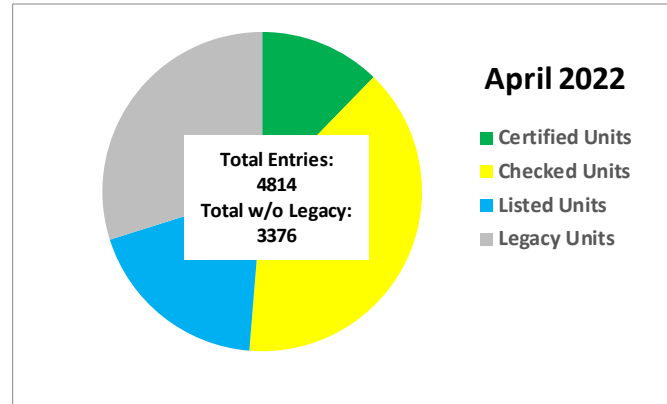
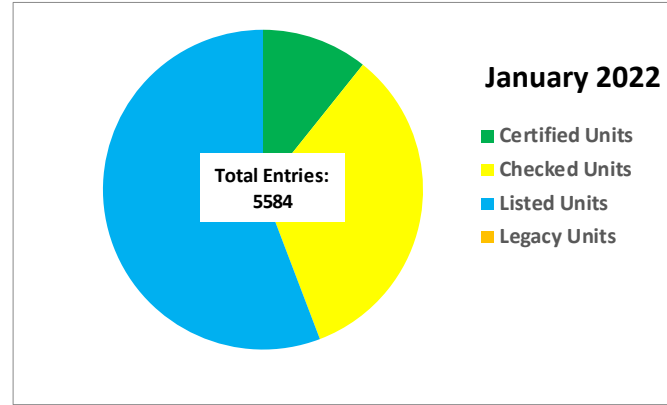
	Total Entries	Listed Units	Checked Units	Certified Units
Bitzer	1515	651	712	152
Danfoss	806	608	117	81
Dorin	0	0	0	0
Embraco	124	0	111	13
Emerson	750	293	399	58
Epta	0	0	0	0
Frascold	1437	1263	96	78
Bock	297	0	195	102
SCM Frigo	93	31	33	29
Tecumseh	555	269	207	79
Teko	7	0	0	7

Sum	5584	3115	1870	599
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Status: 2022_04_05

	Total Entries	Legacy Units	Listed Units	Checked Units	Certified Units
Bitzer	1515	651	0	720	144
Danfoss	806	191	460	74	81
Dorin	0	0	0	0	0
Embraco	124	61	0	50	13
Emerson	759	156	0	545	58
Epta	0	0	0	0	0
Frascold	658	135	349	96	78
Bock	297	42	0	153	102
SCM Frigo	93	0	31	33	29
Tecumseh	555	202	67	207	79
Teko	7	0	0	0	7

Sum	4814	1438	907	1878	591
Sum1				3376	



NEW ASERCOM CU WEBSITE APPEARANCE

- ASERCOM offers the possibility on the website to search and select certified



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List of Certified Condensing Units

Loading the complete list might take a while...

Manufacturer: Refrigerant: Application: Cooling Cap:


Status: Type: Voltage:

Show 10 entries

Registration	Manufacturer	Unit	Refrigerant	Application	Cooling Cap	Sec. Cond.	Status	Type	Voltage	Ecodesign data
	DANFOSS	OP-LRQH048NTF00E	R452A	LT	1.12	20 °C	Checked	Piston	400/3/50	<input type="button" value="More"/>
	DANFOSS	OP-LRQH048NTF00G	R452A	LT	1.12	20 °C	Checked	Piston	230/1/50	<input type="button" value="More"/>
	DANFOSS	OP-LRQH068NTF00E	R452A	LT	1.72	20 °C	Checked	Piston	400/3/50	<input type="button" value="More"/>

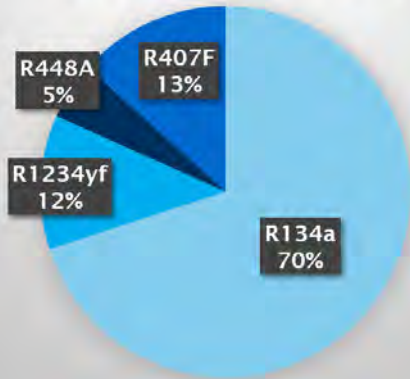
Button to Access Legacy Units



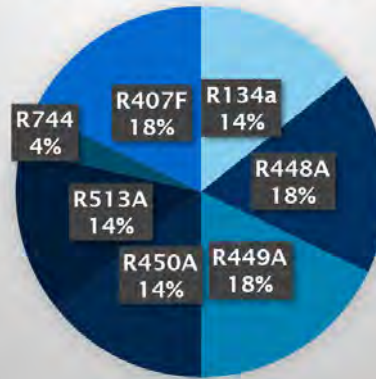
 SEARCH HERE FOR LEGACY CONDENSING UNITS (GWP > 2500)

Certification Statistic on refrigerants

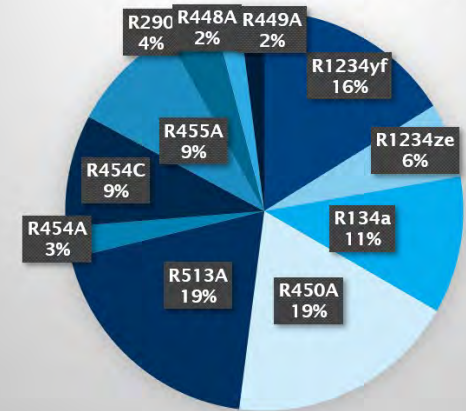
Certification 2016



Certification 2018



Certification 2020/21



Regular Laboratories' Audits

- **Audit done by TÜV 6th round since 2005:**
 - All Audits 2021 have been cancelled due to COVID19
 - **Scheduled 4-6 Audits in 2022**
- **The test stands comply with the EN standard and ASERCOM rules**

Outlook – Certification in 2022

- **2 Batches scheduled for compressors in 2022**
 - Batch 57, May 2022
 - Batch 58, November 2022

- **1 Batch scheduled for condensing units**
 - Batch 12



Certification Software Development

Certification Software Tools

➤ Several Software tools developed by ASERCOM

➤ ASEVALCU

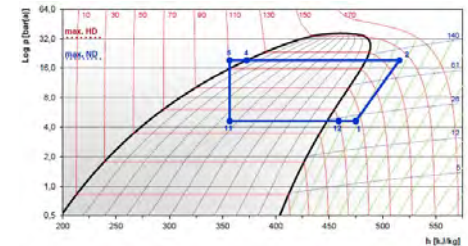
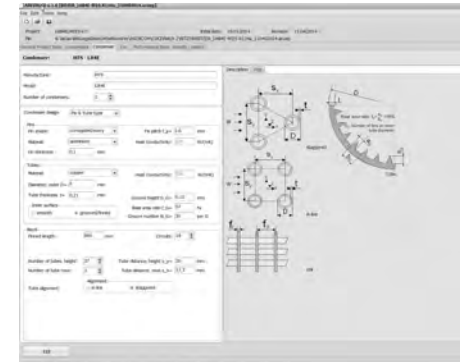
- Assists engineering by calculating and pairing different condenser designs, fans, compressors and new refrigerants
- Generates performance data for documentation and catalogues
- Supports certification process
- Microchannel and R744 integrated

➤ ASEVAL

- Assists creating compressor performance data and documentation
- Supports certification process

➤ ASEREP II

- ASERCOM refrigerant library for all upcoming and existing refrigerants to be used in engineering, certification and the official selection software products of the manufacturers



Trusted certification since 1999



- **Open scheme, large coverage, reliable**
- **Transparent unit overview for consumers**
- **Trustworthy information to the market supported by 3rd party review**
- **Software tools developed for**
 - Condensing Unit development
 - Generation of performance data for catalogues
 - Submission of performance data for condensing units and compressor certification
 - Refrigerant data for certification, engineering and selection software products