Refrigerating machinery (except domestic type refrigerators)

This Report on the Refrigerating Machinery (Except Domestic Type Refrigerators) Industry relates to establishments engaged wholly or mainly in manufacturing refrigerating machinery, commercial refrigerators and commercial refrigerating equipment, including deep freeze and quick freeze machinery. Domestic type refrigerators and deep freeze units (including non-electric refrigerators) are excluded.

This industry corresponds to minimum list heading 339(3) in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census.

The industry formed part of the Miscellaneous (Non-electrical) Machinery Industry (Part 49) in the Reports on the last detailed Census of Production for 1963 corresponding to the sub-division 'refrigerating machinery' except that domestic refrigerators and freezers, self-contained, complete and parts are now included in Electric Appliances Primarily for Domestic Use (Part 78). In addition the treatment of parts has been altered considerably for 1968 for this and other mechanical engineering industries. The distinction made in the 1963 reports between parts sold in association with the sale of complete machines, and other parts sold, has been discontinued for 1968 and all parts are now treated in the same way as the complete machines for classification, ie as principal products of their respective mechanical engineering industries and shown in Table 5.

Throughout this Report, the figures given for 1963 have been reclassified, as far as possible, according to the Standard Industrial Classification (Revised 1968) and to take account of the different treatment of parts adopted for 1968 so that data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms, which provided limited information only, has been arbitrary.

METHOD OF CLASSIFICATION

In classifying returns to this industry the value of unspecified work done (other than structural and installation work) including repair work, was not taken into account unless it amounted to 80 per cent. or more of the total output of the return in which case the return was classified to General Mechanical Engineering (Part 66). The amount charged for erecting and installing machinery and plant (other than air-conditioning, heating and ventilating plant) was treated as part of the selling value of these items in determining the industrial classification of returns. The standard classification procedure as outlined in the notes on page (i) was further modified where a return would have been classified to one of the mechanical engineering industries relating to a specific class of machinery (viz. Parts 50 to 66) but where the sales of the principal products of the industry concerned (including parts) accounted for less than 20 per cent. of the total output: in such cases the return was classified to the residual sub-division of the General Mechanical Engineering Industry (Part 66).

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

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- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Acquisitions <u>less</u> disposals.

ABLE 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

		Unit	All establi	shments
		Unit	1963	1968
Contarnrises	The second of th	No.	85	116
mber of enterprises		"	111	139
mber of establishments		£.000	31,154	39,646
oss output		"	14,501	18,557
et output		£	1,512	2,165
et output per head	goods produced and work done (c)	T.000	30,062	38,809
ales and work done	merchanted goods and canteen takings	n	1,461	1,707
	materials for use in production and packaging and fuel	n	14,500	18, 260
urchases	goods for merchanting and canteen purchases	"	1,174	1,640
	for work done on materials given out	"	772	1,953
ayments to other	for transport by road	"		185
ganisations	by rail and other means excluding postal services	ıı j	215	34
ocks and work in progress		"	- 361	+ 111
Total stocks and work in	schange during year			12,020
progress	at end of year		12,431	
	change during year	"	- 68	+ 351
Goods on hand for sale	at end of year	"	2,274	2,397
	change during year	"	- 301	- 1,221
Work in progress	at end of year	n n	6,057	4,820
	change during year	n	+ 8	+ 982
Materials, stores and fuel	at end of year	п	4,100	4,803
	total, including working proprietors	Th.	9.6	8.6
humber employed on average	operatives	"	6.4	5.1
during the year	other employees (d)	n	3.1	3.4
		£,000	5,264	5,600
Mages and salaries	of operatives	n	2,863	4,028
and the desired	of other employees (d)			
capital expenditure (e)		"	759	950
Total		"	234	9
New building work		a	4	-
Land and existing building	gs (f)	n	432	68
Plant and machinery (f)		If	89	17'
Vehicles (f)			89	17

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 13 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for 2 per cent. For 1963 the comparable figures were 8 per cent. and 2 per cent. respectively.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

	1963	1968
Number of establishments	65	92
Average number employed: Working proprietors	83	116
Other persons employed	559	835

Footnotes continued on page 60/2.

TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: United Kingdom

				199		
Number employed on average during the year by the establishment (a)	Estab- lish- ments	Enter- prises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
	Number	Number	Number	£,000	£'000	£
1-5	21	21	68			
6-10	25	25	199			
11-24	38	37	646	••		
25-49	15	14	570	2,869	1,197	2,100
50-99	11	10	779	4, 108	1,666	2,139
100-199	11	9	1,520	6,858	3,187	2,097
200-499	4	4	1,283	7,618	3,294	2,567
500 and over	3	3	3,314	13,095	6,826	2,060
Unsatisfactory returns	11	11	192			
Total	139	116	8,571	39,646(c)	18,557(c)	2,165(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the	Emp l	Employees		d salaries	Wages and salaries per head		
year by the establishment (a)	Oper- atives	Others (d)	Oper- atives	Others (d)	Oper- atives	Others (d)	
	Number	Number	£'000	£'000	£	£	
1-5							
6-10				10 2000002100			
11-24							
25-49	364	196	410	234	1,127	1,195	
50-99	525	251	600	293	1,142	1,166	
100-199	1,087	431	1,088	553	1,001	1,284	
200-499	696	587	804	747	1,155	1,272	
500 and over	1,825	1,489	2,044	1,729	1,120	1,161	
Unsatisfactory returns		THE SECOND		s / Mon dicur no best de la con		3 (3 (6) . 83)	
Total	5,089(c)	3,350(c)	5,600(c)	4,028(c)	1,100(c)	1,202(c)	

(a) Including working proprietors.

(b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

(c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

(d) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	3	1	4
18 and over	80	16	96
All ages	83	17	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the 'other machinery' industries minimum list heading 339 - at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification (Revised 1968).

Footnotes to Table 4.

- (a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 2 establishments in 1968 and 5 in 1963.
- (b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (c) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public by larger establishments are included. These amounted to £13,000 in 1968. Similar information is not available for 1963.
- (d) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (e) Progress payments received for work in progress in 1968 from United Kingdom customers were recorded as £1,919,000 at the beginning of year and £1,236,000 at the end of year, and from overseas customers £59,000 at the beginning of year and £66,000 at end of year. Similar information is not available for 1963.
- (f) Administrative, technical and clerical employees.
- (g) Excluding expenditure for establishments not yet in production.

TABLE 4 Analysis of larger establishments, 1963 and 1968 Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)

	end of the first of the shall the second sec	Unit	1963	1968
Number of enterprises		No.	23	30
Number of establishments		п	49	46
Gross output		£,000	28,799	34,650
Net output		п	13,405	16,219
Net output per head	The state of the s	£	1,512	2,165
Sales and work done	{goods produced and work done (b) (c)	£'000	27,790	33,919
Index of specialisation (d)	merchanted goods and canteen takings	"	1,351	1,492
index of specialisation (d)	Control	Per cent.	77	86
Purchases	materials for processing and packaging, and fuel	£'000	13, 404	15,959
. aronasos	goods for merchanting and canteen		10, 101	10,509
	purchases	"	1,086	1,433
	for work done on materials given out	"	714	1,707
Payments to other	for transport			
organisations	by road	"	100	161
	by rail and other means excluding postal services	"	199	30
Stocks and work in progress				30
Goods on hand for sale	change during year	n	- 63	+ 307
doods on hand for safe	at end of year		2,102	2,095
W. J.	change during year	, ,	- 278	
Work in progress (e)	at end of year	,	5,599	- 1,067
Materials, stores	change during year	"		4,212
and fuel	at end of year		0	+ 858
			3,790	4,198
Number employed on	total, including working proprietors	No.	8,867	7,491
average during the year	operatives	п	5,936	4,508
	other employees (f)	"	2,924	2,967
Wages and salaries	of operatives	£'000	4,910	4,960
	of other employees (f)	"	2,668	3,567
Wages and salaries per head	\[\int \text{operatives} \]	£	827	1,100
and sararies per nead	other employees (f)	"	913	1,202
Capital expenditure (g)		100		-,
New building work		£,000	216	79
Land and existing buildings	\[\text{acquisitions} \]	п	24	74
and oxioting buildings	disposals	"	20	79
Plant 1	(acquisitions	п		
Plant and machinery	disposals	"	430	621
	acquisitions		31	
Vehicles	disposals	"	115	227
	(- 10 postato	"	33	72

For notes to this table - see page 60/5.

Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968 TABLE 5

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

A STATE OF THE STA	196	3		1968		
Principal	Quantity	Value	Quantity	Value	Enter- prises	Entries
feri de pl. portanti	Number	£'000	Number	£,000	Number	Number
efrigerating machinery (except domestic ype refrigerators) (a)	8012	19013			en galla ggi lali	registel sommit
Commercial types, complete Ice cream conservators	16,802	920	36,078	2,232	8	9
Service cabinets, reach-in type	6,351	889		1,431	15	16
Food display cabinets and counters $\left\{\right.$	6,381	783 94	} 17,876	3,526	17	19
Beverage cooling cabinets {	9,388	490 197	} 44,187	2,103	21	21
Deep freeze and quick freeze units	1		17,376	1,460	17	. 17
Other	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1,727	{ 2,722	1,183 373	} 21	21
Condensing units, complete		3,143		5,296	14	18
Machinery for mechanical operation, prime mover exceeding 10 h.p. capacity		4,128		3,366	*	*
Other refrigerating machinery and parts for all types of refrigerating machinery (excluding domestic)	al (d a lou	16,741(b		14,491	61	68
Other products		40		39	*	*
Waste products	solani.	hasial .	profuent but	18 mx 3 m x 2 m	ay famil	
Scrap metals	Th.tons	15	3	12	8	8
Iron and steel		3			*	*
Brass	0.2	21	1 (200) 30 (4) (5)	6	10 7 NAS	and the same
Copper and other scrap metals	on figure	19		59	9	_17
Work done: refrigerating machinery and plant erected and installed		3,787		5,357	6	7
Total	le soi	33, 439	aniznati Sizari bad	40,936	EL STAT	re leek
Sales in other industries (see Table 6)		11,918	100	11,605	ing and an	ns lings
Principal products of this industry sold by establishments in the industry		21,521	10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	29,331	30	35(0

⁽a) Domestic type refrigerators are included in the report on the Electric appliances primarily for domestic use industry (Part 78).

⁽b) Including parts of domestic type refrigerators for 1963.

⁽c) This figure represents the total number of returns made for larger establishments in this industry which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963		1968				
Address action 000° recons	Value	Value	Entries	Principal industries in which produced (a)			
Refrigerating machinery	£,000	£'000	Number	neveet or our			
Commercial types, complete				(8) (8			
Beverage cooling cabinets	1 1	412	9	62,70,78,96			
Deep freeze and quick freeze units	3,420	894	5	78,80			
Other		2,472	16	64,78,97,15			
Condensing units, complete	1,288	1,606	8	56,61,77,78			
Other refrigerating machinery and parts for all types of refrigerating machinery (excluding domestic)	7,210	6,221	50	(b)			
Total	11,918	11,605	11				

⁽a) The references given are to the list of industries at the front of this report.

(b) Production is widely distributed.

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	1963	1968
	Value	Value
Space heating, ventilating and air-conditioning equipment, complete and parts	£'000	£,000
Other products	3,503	647
Work done	3,505	1,697
Building and civil engineering work carried out in Great Britain including the erection of constructional steelwork and the erection and installation of air- conditioning, heating and ventilating plant, but not of complete process plant (a)		101/01001
Repair and jobbing work	63	225
	1,944	2,010
Other work done	122	3
Services rendered to other organisations (b)	13	6
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	1,312	1,487
Canteen takings	39	4
Total Total and Figure 1 and Fi	7,619	6,080

For notes to this table - see page 60/9.

Production of certain principal products of the industry by larger establishments, 1963 and 1968

This table is not applicable to this industry.

Purchases by larger establishments of selected principal products TABLE 9 of the industry, 1968

This table is not applicable to this industry.

Footnotes to Table 7.

- (a) The data shown for 1963 is not comparable with that for 1968. Because of a change in the method of collection, the data for 1968 includes goods made by firms and incorporated in their building and civil engineering work whereas the data for 1963 excludes such goods. For 1963 the value of goods made and used in building and civil engineering work amounting to £320,000 has been deducted from the gross figure for building and civil engineering (£383,000) in order to avoid duplication which arises because they have been included against the appropriate sales headings elsewhere in the Report. For 1968 duplication does not arise since goods made and used in building and civil engineering work were not shown additionally as sales elsewhere in the Report; it is estimated that these goods amounted to £13,000.
- (b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968
Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

			1963		1968
		Quant it	y Cost	Quanti	ty Cost
Materials for use in production		Th. ton	s £'000	Th. to	ns £'000
Iron castings	ſ	5.4	347	1	ns 2 000
Steel	ł		51	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	502
Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares			0.50		
Plates, 3mm. thick and over			350	2.8	213
Sheets under 3mm. thick (including electrical sheets		2.4	215		106
Castings		1.2	100	4.9	537
Iron and steel not elsewhere specified except finished parts, wire and scrap		•••	9		56
Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc)		REAL PROPERTY IS	207		
Other	ſ	0.1	337	3.4	593
Springs	1	••	520	}	597
Springs, laminated and other types Steel wire and wire manufactures (excluding insulated wires and cables)			18		17
Wire (single wire)					
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap			25		8
Aluminium and aluminium alloys	{	0.5	199	1	527
Brass and other copper alloys (including nickel silver and cupro nickel, but excluding all other nickel alloys and cadmium copper) (a)	{	0.6	184],	
Copper (including cadmium copper) (b)	4		65		329
Solder, soft		0.8	341	1.4	1,022
Glass in all forms (including finished parts)		rosson series	6	4 - · ·	17
General chemicals (c)			57		103
		(III. 1	188		478
Paint and varnish (including lacquers and stains)	1	Th.gal.	26	1	
Synthetic resins and plastics metarial	1		26 6	}	53
and reinforced plastics)		em street gar	44		371
Manufactures wholly or mainly of rubber (including synthetic rubber), balata and gutta-percha, including sheeting, but excluding replacement parts for firms' own machinery, plant, vehicles, etc		est begins 1 101 10 1	o escretoga (surmana)		371
Timber			52		52
Softwood, sawn or planed but not further prepared or		Th.stds.		Th.stds.	
manufactured or manufactured	{	0.2	22 27	1.5	192
Hardwood, sawn or planed, but not further prepared or manufactured		Th.cu.ft.		Th.cu.ft.	
Plywood, including blockboard, laminboard and battenboard		Th.sq.ft.	5 4	9.4 Th.sq.ft.	30
sbestos in all forms (including finished parts)	-		94	} 587	105
ther thermal insulating materials			20		17
nsulated wires, cables, strips and strands			429 24		400
			24		71

TABLE 10 (continued)

	1	963	196	8
	Quantity	Cost	Quantity	Cost
in analystican (continued)	1.20	£,000	A THE POST OF	£'000
aterials for use in production (continued)				
Bolts, rivets, nuts and washers, screws, nails, tacks, etc		104		105
Machinery and plant bought for installation and erection		1,793		1,229
Purchased components for incorporation in firms' own products	1337 - 200 1	a de la seria de la composición dela composición de la composición dela composición dela composición dela composición de la composición dela composición de la composición dela composició		
Ball and roller bearings and parts thereof		15	••	4
Electric motors				E00
Of less than 1 h.p.		1,232		589
Of 1 h.p. and over		543		711
Industrial valves	lawes ven	292	11 to 12	488
Pumps		202		508
Measuring instruments and gauges and parts	A The Same			
Industrial process measuring and control instruments and equipment		304		352
		228		382
Other		10		69
Plastic goods moulded and fabricated				
Other components not elsewhere specified (excluding those of rubber and asbestos)	Th.gal.	2,650		3,520
Lubricating oils and greases (including cutting oils and emulsions)	126	29 56	}	42
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement			opensions or on the	11 3.388
Tyres and other spare parts for firms' own road goods vehicles	}	139		61
Other	J			82
All other materials for use in production		1,516		808
Packaging materials		and the second second	CONTRACTOR	and the second
Boxes, cartons, drums and canisters (with or without metal ends) of paper, cardboard and fibreboard		57		55
Timber			842.14.251	
Containers wholly or mainly of wood (including plywood boxes and drums), baskets and wickerwork crates	strong. In	21	states out	50
		10 de 160	Th.cu.ft. 5.6	3
Timber (sawn or planed) for manufacture into packing cases, etc	and to be	12	{ 3.3	9
All other packaging materials	ga - (-0.1)	32	•• 10	86
Fuel and electricity (d)	Th. ton	s		
Coke (including screenings) and manufactured fuel	1.2	12		5
	Th.gal		1	A STORES
Derv fuel and motor spirit for use in road vehicles	{ 229	42 34	}	106
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	450	20 34	}	35
	Th. the:	rms 29	1	39

Continued on next page.

TABLE 10 (continued)

	19	1963		1968	
And the state of t	Quantity	Cost	Quantity	Cost	
Fuel and electricity (d) (continued)	Th.kWh	£,000	Th.kWh	£,000	
Electricity	{ 3,298	29 138	} 18,641	186	
All other fuels	a los pointaines	(e)		37	
Total cost of materials and fuel	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13,404	NA WERNING	15,959	
boods purchased for merchanting	Thomas arm	1,045	94 Valida 4	1,415	
Canteen purchases	20.00	41	850700	18	
Total cost of purchases		14,490	a tomato se	17,392	

⁽a) For 1963 cadmium copper was not specifically excluded.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	Unit	1963	1968
Average number mainly employed on transport	No.	91	96
Transport costs			
Wages and salaries	£,000	70	109
Derv fuel and motor spirit	"	76	106
Tyres and other spare parts for road goods vehicles	"	• •	61
Payments to other by road	п	1	161
for transport by rail and other means excluding postal services	"	199	200
Costs of operating road goods vehicles	No. 11 - 11	, (30
Insurance	"	14	18
Vehicle licences	11	11	23
Depreciation	H H	65	90
Payments to other organisations for repairs and maintenance	n	52	45
Total	"	488(a)	644

⁽a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	Amounts	Amounts payable	
	1963	1968	
Repairs and maintenance to	£,000	£,000	
Buildings	67	51	
Road goods vehicles	52	45	
Plant, machinery and other capital equipment	82	116	
Insurance, licensing and depreciation of road goods vehicles (b)	91	132	
Rates, excluding water rates	160	231	
Hire of plant and machinery	52	13	
Postage, telephone, telegrams, cables and telex (c)	135	167	
Total	640	754	

⁽a) No deduction is made for these payments to arrive at the figures of net output given in this report.

Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Year ended	Percentage of total returns received	Percentage of total number employed	
1968	Per cent.	Per cent.	
April (a)	0.0	0.0	
May	0.0	0.0	
June	2.9	0.5	
July	0.0	0.0	
August	0.0	0.0	
September	22.8	53.3	
October	8.6	9.3	
November	0.0	0.0	
December	28.5	23.5	
1969			
January	8.6	2.3	
February	5.7	1.5	
March	22.9	9.6	
April (b)	0.0	0.0	
	100	100	

⁽a) From 6 April.

⁽b) For 1963 cadmium copper was not specifically included but blister was excluded.

⁽c) For 1963 described as 'Heavy chemicals'.

⁽d) There were no entries recorded for electricity generated in firms' own establishments in this industry in 1963 and 1968.

⁽e) Not recorded separately in 1963.

⁽b) For details see Table 11.

⁽c) Excluding telex for 1963.

⁽b) To 5 April.

The control of the co