

# Actrol PARTS

# Catalogue & Technical Manual

SUPPLIERS TO REFRIGERATION, AIR-CONDITIONING  
AND ALLIED INDUSTRIES.

A diverse range of products for domestic, commercial and industrial uses is stocked and promoted through our national network. Some of these products are produced by our sister companies in the Actrol Manufacturing Group or imported from international associates.



\$15.00



## **A Profile of and Tribute to The Man Behind our Catalogues**

### **Stuart R. Leticq 37 Years On . . .**

In the years 1940 to 1945, Stuart was a member of the Royal Australian Engineers, and it was there he first became interested and involved in Refrigeration. Stuart received his discharge from the Services in 1945 and joined Warburton Franki Pty. Ltd.

During his 18½ years association with this Company, he progressed from the Spare Parts Division to become Service Manager and then Factory Manager.

In July 1962 he joined J.F.Reidy Pty. Ltd. at 175/177 King Street, Melbourne; who at this time was in the early stages of development. In Stuart's words — "with only a staff of 5, one had to be competent at everything from sweeping the floors to making managerial decisions". As the business expanded, they moved across the road to 170/180 King Street and Stuart became even busier. While here, he assisted in setting up the first Self-Service Refrigeration Parts Supply System in Australia and took over the Company Purchasing operation.

In July 1966, the Company moved to Lonsdale Street, Melbourne and remained there until 1977.

In September 1968, Stuart became involved in the issue of J.F.Reidy's 1st. Catalogue and then the subsequent revised Edition in 1972.

During this period, Stuart was not only involved in Company activities, but also found time to actively participate in AIRAH. Joining in 1964, he became a member of the Victorian Committee in 1966 and advanced to the Offices of Junior and Senior Vice-President during 1969/1970.

In 1970, while still actively participating in AIRAH, Stuart found that Company business was taking more and more of his time, and found it necessary to reduce his active participation.

In May 1976, J.F.Reidy Pty. Ltd. was taken over by ACTROL and Stuart was appointed Group Supply Manager for all branches throughout Australia.

In 1977 the Company moved to their present premises in Adderley Street, West Melbourne and during this time Stuart began work on the 3rd. and greatly enlarged Catalogue, which was issued in early 1978.

In September 1981, Stuart officially retired from Actrol, however, because of his extensive experience in the Industry and personal involvement with the previous Catalogues, he was retained by the Company to co-ordinate the production of the 4th. and current Catalogue and to continue in a consulting capacity on special projects.

**The Management of Actrol Parts wishes to express their sincere thanks and gratitude to Stuart for his contribution to the Catalogues and his dedicated and untiring energy and commitment to the Company.**

His many years service has undoubtedly made a valued contribution to the Refrigeration and Air Conditioning Industry.

# INTRODUCTION

## ACTROL PARTS CATALOGUE & TECHNICAL MANUAL NO. 4

CAT. NO.  
327288

Issue 4 of our Catalogue provides you with, not only a Product Catalogue, but also a Technical and Reference Manual, containing a broader and more complete coverage of the Products, including many new Products, as well as a comprehensive Technical and Reference Section.

We believe the information contained in this Catalogue will assist you, save you time in looking elsewhere, and provide a long sought after source of information for our Industry.

Half of the Technical Section is devoted to "conversion" factors, both SI Metric and other Metric Units, including many old conversion factors still in use by Engineers, Designers and Servicemen today.

Included also are many Replacement Reference Tables together with Old/New - New/Old Equipment Part Numbers which have not been previously available. Also included are Product Cross Reference Charts plus a Quick Reference Section on Ammonia Refrigeration Products in the Main Index.

We do not wish to leave the impression that the products featured in this Catalogue is all that can be supplied. Obviously all product lines cannot be shown in complete detail, therefore we have available Manufacturers' Catalogues when additional information is needed.

We have endeavoured to make this comprehensive Catalogue a useful aid to the Industry's professional user in their day-to-day work activities, which reflects our continued efforts to upgrade service ability and expertise to meet anticipated increased demand from a rapidly developing Industry.

The management would like to thank our present clients for their patronage. If this is our first opportunity to serve you, we assure you that we will strive to handle any order entrusted to us to your complete satisfaction. Please accept our cordial invitation to visit us anytime you are in our vicinity.

## HOW TO USE THIS CATALOGUE TO YOUR ADVANTAGE

As will be seen on the opposite page, the Catalogue comprises 9 colour coded Sections, each Section commencing with its respective coloured Index/Dividing sheet. All right hand pages are "tabbed" on the side with the Section No., enabling you to quickly "flip" to the Section in which you are interested.

### QUICK REFERENCE TABLE OF CONTENTS

On opposite Page and Back Page - Designed for rapid identification and selection.

### INDEXES

Each Section has its own individual Index printed on the coloured Dividing sheet.

The **MAIN INDEX**, which follows the front "QUICK REFERENCE TABLE OF CONTENTS", is a fully comprehensive and detailed Index covering **ALL** Sections of the Catalogue.

A **TRADE AND BRAND NAMES INDEX** has now been included and follows the **MAIN INDEX**.

### CATALOGUE NUMBERS - designated "CAT. NO."

All items in this Catalogue either have, or have provision for Catalogue Numbers. The first three numerals of the Catalogue indicates the Catalogue Page on which that item can be found.

**CATALOGUE NUMBERS ARE EASILY IDENTIFIED BY THE SHADED AND HEAVILY BORDERED AREAS**

### PAGE NUMBERS

While following a numerical sequence, Catalogue Page Numbers do have gaps or provision for additional pages in the future.

(A numerical page number sequence shown in very small type at the foot of each page should be disregarded - this number is used only for internal Company purposes).

The majority of pages are now self-contained i.e. they include both details of the product and the ordering catalogue number. Where applicable, these pages are followed by **TECH. PAGES** - designed to provide you with fuller technical details on the products available.


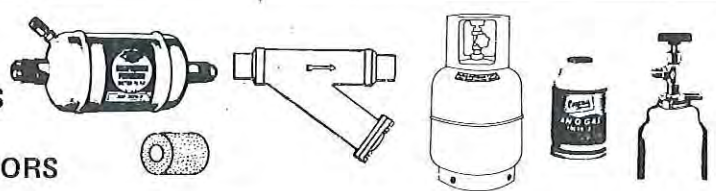
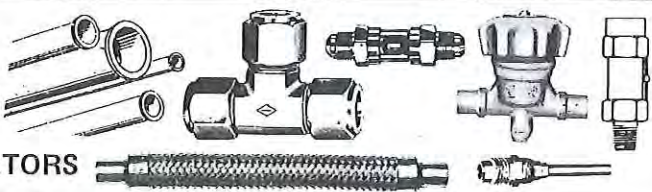

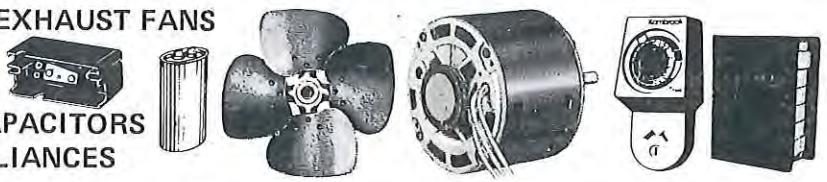
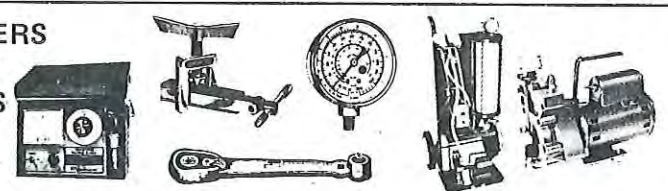

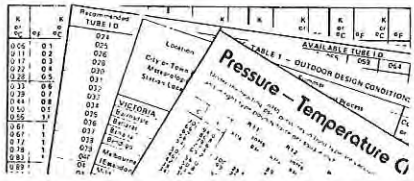
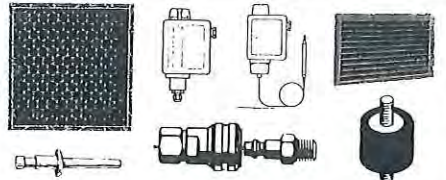
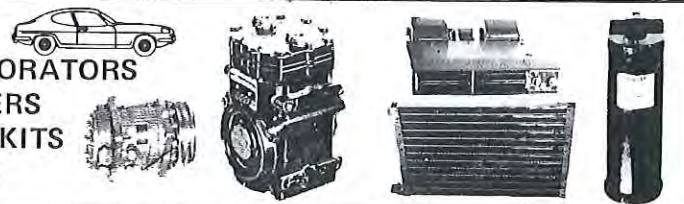
Each Technical Page has the words "**TECH. PAGE**" along side the main page number at top and bottom. Pages which are not "self-contained" refer clearly to a preceding "Catalogue Number Summary Page - For Ordering Purposes".

### METRICS

Although Australian Industry is well advanced in the change-over to SI Metrics, many Manufacturers and Suppliers (with some exceptions), have yet to produce fully SI Metric information and literature on their products. This applies particularly to overseas Manufacturers both from American and European sources. Weights, measures and performance data is therefore presented primarily in the format or "units" in current use by the respective Manufacturers/Suppliers.

However, in many Tables and Charts, where space and time permitted, we have added so called "Soft Conversion" SI Metric data for your convenience. Additional compensation is also provided by the inclusion of many pages of Conversion Factors in the Engineering and Technical Data Section as well as on some individual pages throughout the Catalogue.

# QUICK REFERENCE TABLE OF CONTENTS

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<b>CABINET ACCESSORIES – HARDWARE</b> <b>COMPRESSORS &amp; COND. UNITS – PARTS</b> <b>ADHESIVES, SEALANTS, MASTICS, TAPES</b> <b>INSULATION, COOL ROOM EQUIP. – FDC's</b> <b>SYSTEM COMPONENTS – AIR CURTAINS</b> 	Orange	4
<b>FAN BLADES &amp; MOTORS, EXHAUST FANS</b> <b>MOTORS &amp; STARTERS</b> <b>TERMINALS, BATTERIES</b> <b>RELAYS, OVERLOADS, CAPACITORS</b> <b>BOOKS, ELECTRICAL APPLIANCES</b> 	Pink	5
<b>INSTRUMENTS, TOOLS, THERMOMETERS</b> <b>PRESSURE GAUGES, ELECT. METERS</b> <b>SOLDERS, BRAZING ALLOYS, FLUXES</b> <b>LEAK DETECTORS, VACUUM PUMPS</b> <b>SERVICING &amp; CHARGING EQUIPMENT</b> 	Red	6
<b>ENGINEERING &amp; TECHNICAL DATA</b> <b>METRIC CONVERSION</b> <b>DESIGN INFORMATION</b> <b>FORMULAE, TABLES, CHARTS</b> <b>A USEFUL &amp; PRACTICAL SECTION</b> <div style="display: flex; align-items: center; justify-content: center; gap: 20px;"> <div style="text-align: center;">  </div> <div>  </div> </div>	White	TECH
<b>INDUSTRIAL EQUIPMENT – CONTROLS, SWITCHES</b> <b>VALVES, PUMPS, COUPLINGS, WATER TREATMENT</b> <b>OIL BURNER CONTROLS, ELECTRONIC COMPONENTS</b> <b>NOISE &amp; VIBRATION CONTROL PRODUCTS, GRILLES</b> <b>FILTERS/FILTER MEDIUM, LABELS, FASTENERS</b> 	Green	7
<b>AUTOMOTIVE AIR CONDITIONING</b> <b>COMPRESSORS, CONDENSERS, EVAPORATORS</b> <b>VALVES, SWITCHES, RECEIVER-DRIERS</b> <b>CLUTCHES, FAN BLADES, ADAPTOR KITS</b> <b>TOOLS, EQUIPMENT &amp; ACCESSORIES</b> 	Gold	8

# GENERAL TERMS AND CONDITIONS OF SALE

In these Terms and Conditions Seller means Actrol Industries Pty. Ltd., trading as Actrol Parts and Buyer means the buyer whose order for the purchase of goods is accepted by Seller.

## 1. ACCEPTANCE OF BUYER'S ORDER:

These terms and conditions shall apply to every sales contract and sale of goods between Seller and Buyer; any terms and conditions of Buyer's order deviating from or inconsistent with these terms and conditions are expressly rejected by Seller. This rejection also extends to any statement by Buyer that Buyer's terms and conditions shall prevail and to any stipulation by Buyer as to the manner of declaring such rejection.

A contract shall only be or be deemed to have been entered into between Seller and Buyer for the supply of goods when, upon an order having been placed upon Seller for goods, that order has been accepted by Seller (such acceptance of order may be made and communicated by Seller in writing or by overt act of acceptance). The provisions of this clause 1. shall apply to every quotation or offer by Seller for the supply of goods.

## 2. PRICES:

All prices shall be ex warehouse and shall not include Insurance, delivery charges and sales tax. Seller may invoice the goods sold at its prices ruling on the date of each delivery.

## 3. PROPERTY:

The property and risk in the goods sold shall pass to Buyer when goods are loaded for consignment at Seller's warehouse whether by Carrier employed or engaged by Seller or Buyer. This shall also apply to any partial delivery of goods. If delivery of goods is delayed due to any circumstances beyond the control of Seller the property and risk pass to Buyer on the day when the goods were first ready for consignment from the Seller's warehouse.

## 4. INSURANCE:

Seller will insure goods and premium will be to the Buyer's Account unless otherwise instructed by Buyer.

## 5. PAYMENT:

Buyer shall pay cash on delivery for all goods delivered. If Seller shall extend credit to Buyer, payment for all goods sold will be within Thirty (30) days from the last day of the month in which each delivery was made. Interest shall be payable by Buyer on all amounts overdue to Seller at the rate of Ten (10) per centum per annum.

## 6. CONFIRMATION ORDERS:

Confirmation orders must be marked as such by Buyer if not Seller will consider Buyer's order as original.

## 7. CANCELLATION:

Cancellation of contract of sale between Buyer and Seller requires approval in writing from Seller otherwise the goods will be delivered to Buyer and Seller entitled to payment from Buyer.

## 8. ACCEPTANCE AND CLAIMS:

Acceptance of the goods delivered shall be deemed for all purposes to have taken place at the expiration of Fourteen (14) days from the date of each delivery.

No goods will be accepted for return unless agreed in writing by Seller prior to such return and then only upon conditions acceptable to Seller and at Buyer's entire risk as to loss or damage. Where Seller agrees to accept goods for return a restocking charge of 10% of the price of the goods returned will be made.

Seller's liability for a breach of any condition or warranty implied by Division 2 of Part V of the Trade Practices Act 1974 (other than a condition or warranty implied by Section 69 of that Act) is limited to such one or more of the following as Seller decides.

- (i) the replacement of the goods or the supply of equivalent goods;
- (ii) the repair of the goods
- (iii) the payment of the cost of replacing the goods or of acquiring equivalent goods.
- (iv) the payment of the cost of having the goods repaired.

## CONSUMER AND OTHER RIGHTS

These terms and conditions do not and shall not be taken as applying to exclude, restrict or modify in any manner whatsoever:—

- (a) the rights conferred on consumers and others by certain Commonwealth State and Territorial law that cannot lawfully be excluded, restricted or modified.
  - (b) the rights and remedies conferred on a consumer by any such law.
  - (c) the exercise of any such rights and remedies by a consumer; or
  - (d) any mandatory condition or warranty implied by any such law in favour of a consumer which cannot be excluded by contract between the parties to the sale of goods. All provisions of these terms and conditions shall be and be read as being subject to all such rights and remedies of a consumer and not in derogation thereof and no part of this Clause can be waived by a consumer. Further, wherever any part of these terms and conditions would otherwise be inconsistent with the mandatory requirements of any such law, these terms and conditions shall, as far as possible, be construed so as to be consistent with such law and for that purpose to the extent necessary shall be of no force or effect (but without prejudice to and reserving the full force and effect of the remaining provisions hereof). The attention of consumers is drawn to their rights and remedies under all such laws.
9. SPECIAL ORDERS:  
Buyer will place order in writing on Seller for non stock items. Seller will not accept return of non stock items unless Manufacturer agrees to accept return from Seller. Seller may deduct transport, handling and restocking charges from the credit due to Buyer.
10. SUBSTITUTION:  
Seller reserves right to substitute some other make or brand with similar specification if item ordered by Buyer is not available. If Buyer is not satisfied goods may be returned to Seller for credit.
11. DELIVERY TIME:  
Seller may deliver the goods by instalments or partial shipments and Buyer will accept each such delivery. Requirements of Buyer shall not be a condition or of the essence of the contract.  
Seller shall be under no liability for direct or consequential loss or damage to Buyer arising from delay or postponement in delivery.
12. WARRANTY:  
Goods sold shall have the benefit of any warranty given by the Manufacturer but Seller shall not be liable for any loss or damage direct or consequential arising out of any defects.  
All Conditions and Warranties implied by Law or under Statute are hereby expressly negated so far as they lawfully can be.
13. REPAIRS:  
Goods returned by Buyer to Seller for repair will be free of all charges to Seller and at Buyer's risk.
14. CLERICAL ERRORS:  
Clerical errors in computations, typing or otherwise of Catalogue quotation acceptance offer invoice delivery docket credit note specification or Seller shall be subject to correction.
15. MODIFICATION:  
All modifications and amendments to these Terms and Conditions shall be in writing and if otherwise shall not be binding upon Seller.

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IF IT IS NOT LISTED IN THIS CATALOGUE - ASK US ANYWAY. 'WE HAVE MANY OTHER ITEMS AND ACCESSORIES TOO NUMEROUS TO LIST - WE CAN PROBABLY HELP YOU

REMEMBER

WE HAVE LARGE STOCK HOLDINGS OF SPARE PARTS INCLUDING PARTS FOR YOUR SUPERCEDED EQUIPMENT

SUPPLEMENTARY LITERATURE

EVEN THOUGH OUR CATALOGUE IS QUITE COMPREHENSIVE, WE CANNOT PRINT ALL THE INFORMATION IN THE VARIOUS MANUFACTURERS' LITERATURE - THESE ARE AVAILABLE ON REQUEST

WE ARE AS NEAR AS YOUR NEAREST TELEPHONE OR TELEX

AGA  
Hot  
EMC  
IGTC  
OKA  
OMO

CAME  
Elec  
CANE  
Digif  
CASO  
(ELS)  
CENR

Ball  
Engl  
KELV  
Beve  
Com  
Com  
Com  
Con  
Dom  
Dom  
Equi

Hot  
Liqu  
Oil S  
Rela  
Stral  
Tem

KEWN  
KEW  
Elec  
KEY  
KING  
KIRB

Acct  
Aut  
Cap  
Char  
Com  
Com  
Com  
Com  
Drie  
Liqu  
Pack  
Rela

KLEE  
Clea  
KMP  
Drie  
Drie  
Free  
Stra

KOLL  
KOOL  
Evar  
KRAI  
Leal  
KWIK  
Liqu  
KWIK  
Man

LACC  
Seal  
Sole  
LAKE  
LARI  
LEAF  
LEOP  
LEVE  
LITT

Sery  
LOCT  
LOEV  
Hot  
LUKE  
Pacl  
See  
Co  
Sa

L'UN  
See

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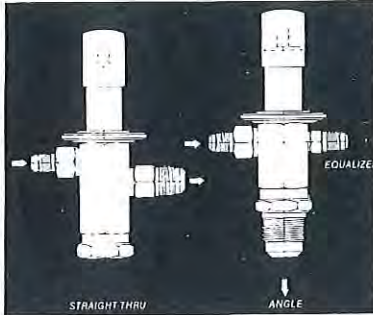
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# AUTOMATIC EXPANSION VALVES



THE ALCO ACP VALVE IS AN AUTOMATIC EXPANSION VALVE DEVELOPED FOR SMALL COOLING UNITS WHERE THE LOAD IS REASONABLY CONSTANT — For use with R12, R22, R500 & R502 only. Applications: Ideally suited for room air conditioners, domestic refrigerators, drink dispensers, food dispensers, ice cream cabinets, bottle coolers, home freezers, ice cube makers, ice cream freezers and milk coolers.



### FEATURES

- Fully adjustable from 0 - 550 kPa (0 - 80 psig).
- Covers multiple capacity ranges.
- No packing — no gaskets.
- Corrosion resistant construction.
- Small and compact adaptable for any installation.
- Flare or solder connections.
- Angle or straight-thru styles.
- Internal or external equalizer.
- Option of internal bleed hole for applications where a small low-torque compressor motor is utilized.
- Can be used as a hot gas by-pass valve

CAT. NO.	VALVE SIZE	CAPACITY* kW & Tons					
		R12		R22		R502	
		kW	Tons	kW	Tons	kW	Tons
ACP (E) 1		.91	.26	1.55	.44	1.02	.29
ACP (E) 2		1.20	.34	2.00	.57	1.34	.38
ACP (E) 3		1.90	.54	3.20	.91	2.15	.61
ACP (E) 4		2.71	.77	4.57	1.30	3.06	.87
ACP (E) 5		4.11	1.17	6.89	1.96	4.61	1.31
ACP (E) 6		5.59	1.59	9.39	2.67	6.26	1.78
ACP (E) 7		6.86	1.95	11.53	3.28	7.70	2.19
ACP (E) 8		7.84	2.23	13.19	3.75	8.79	2.50
ACP (E) 9		11.15	3.17	18.71	5.32	12.49	3.55

\* Capacity: R12 @ 60 psi PD. R22/R502 @ 100 psi PD. ALCO 'ACP' Leaflet with full details available on request



For use on R12 and R22. Plants with one Cooling Point only. Automatic Expansion Valves cannot be used on Pressure Controlled plants or on multi-temperature installations which require a Thermostatic Expansion Valve.

REFRIG	VALVE		NOMINAL * CAPACITY		ADJUST RANGE	CONNECTIONS		CARTRIDGE	
	CAT.NO.	TYPE	TONS	KW		INLET	OUTLET	CAT.NO.	TYPE
R 12	1014	AFC - 0	0.24	0.84	-41 to 221 kPa 12" - 32 PSI	1/4" Fl.	3/8" Fl.	11430	DS - 0
	1015	AFC - 1	0.34	1.20		1/4" Fl.	1/2" Fl.	11431	DS - 1
	1016	AFC - 2	0.67	2.36		1/4" Fl.	1/2" Fl.	11432	DS - 2
	1018	AFC - 4	2.70	9.50		1/2" Fl.	5/8" Fl.	11434	DSA - 4
R 22	1017	AFD - 1	0.34	1.20	97-441kPa 14-64 PSI	3/8" Fl.	1/2" Fl.	11430	DS - 1
	1019	AFD - 6	5.40	19.00		1/2" Fl.	5/8" Fl.	11436	DSA - 6

\* Nominal capacity Tons based on +5°C (41°F) Evap. Temp. and 38°C (100°F) Condensing Temperature.

# AUTOMATIC FLOW REGULATORS

FIXED FLOW AUTOMATIC REGULATOR FOR AMMONIA & FLUOROCARBON REFRIGERANTS LIQUID OVERFEED (RECIRCULATION) SYSTEMS



This precision built, heavy duty, Fixed Flow Regulator maintains a constant, non-adjustable flow rate determined only by the selected orifice and independent of initial pressure drop or changes in the inlet or outlet pressure. It has no check valve function.

ORIFICE SIZE MARKED ON NAME TAG

CONTAINS ONE MOVING PART



TYPE **FFR-2**

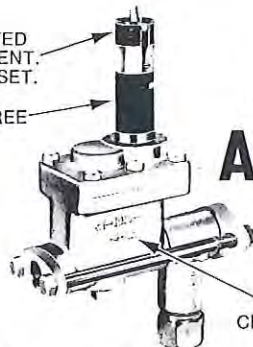
REGULATOR		STRAINER	FLANGED CONN.	ORIFICE			
CAT.NO.	TYPE			CAT.NO.	SIZE	CAT.NO.	SIZE
10151	FFR-2	No	1/2"	10155	4	10159	20
10152	FFR-2ST	Yes	Socket Weld	10156	6	10160	30
10153	FFR-2	No	3/4"	10157	10	10161	40
10154	FFR-2ST	Yes	Socket Weld	10158	15	10162	60

TYPE FFR-2 maintains a constant, non-adjustable flow rate. Has no check valve function. The FFR Series may be used with R 12, R 22, R 502 and other similar fluids. Consult Supplier for Capacity Factors.

WHEN YOU ORDER — State Type of Regulator, Catalogue No., Orifice Size (Type FFR-2), Size and Style of Connections and with or without Strainer

CALIBRATED ADJUSTMENT. EASY TO SET.

FROST-FREE NECK



TYPE **AFR-3**

BUILT-IN CHECK VALVE

ADJUSTABLE AUTOMATIC FLOW REGULATOR FOR AMMONIA LIQUID OVERFEED (RECIRCULATION) SYSTEMS

This precision built, heavy duty, self-contained, semi-steel bodied Automatic Flow Regulator maintains a constant, but adjustable flow rate of liquid to the evaporator, it also serves as a check valve to prevent back flow into the liquid line from the evaporator during pressure reversals such as occur during hot gas defrost.

(Not recommended for use with Fluorocarbon Refrigerants)

REGULATOR		STRAINER	CONNECTIONS
CAT. NO.	TYPE		
10163	AFR-3	NO	3/4" S.W. Flanges
10164	AFR-3-ST	YES	(1/2" S.W. also available)

FFR-2 & AFR-3 SPECIFICATIONS, CAPACITY AND APPLICATION DATA — REFER TECH. PAGE 101-a





# AUTOMATIC FLOW REGULATORS



## Refrigerating Specialties Company

## FFR-2 AND AFR-3

### SPECIFICATIONS

- Safe Working Pressure: 2069 kPa (300 psig)
- Pressure Drop Range: 34 to 414 kPa (5 to 60 psi)  
Higher pressure drops up to 2069 kPa (300 psi) will not harm Regulator but can cause poor flow control
- Minimum Refrigerant Temperature: -45°C (-49°F)
- Maximum Refrigerant Temperature: 38°C (100°F)
- Materials: Body: Cast Semi-Steel  
Internal Working Parts: Stainless Steel

### TYPE FFR - 2 FUNCTION

To maintain a constant non-adjustable flow rate. Has no check valve function. Suitable for Ammonia and Fluorocarbon Refrigerants.

#### CAPACITY — For Ammonia Refrigerant

FFR-2 Regulators have the following nominal flow capacities for pressure drops from 34 to 414 kPa (5 to 60 psi).

FFR-2 Orifice Number	CAPACITY		FLOW RATE		MASS FLOW *		
	kW	Tons	Litre/s	Imp. GPM	kg/sec	kg/min	lb/min
4	14.1	4	0.015	0.20	0.011	0.6	1.4
6	21.1	6	0.023	0.30	0.017	1.0	2.0
10	35.2	10	0.038	0.50	0.027	1.6	3.4
15	52.8	15	0.057	0.75	0.038	2.3	4.1
20	70.5	20	0.076	1.00	0.052	3.1	6.8
30	105.7	30	0.114	1.50	0.078	4.7	10.2
40	141.0	40	0.151	2.00	0.105	6.3	13.6
60	211.0	60	0.227	3.00	0.158	9.5	20.4
None 80	281.4	80	0.303	4.00	0.210	12.6	27.2

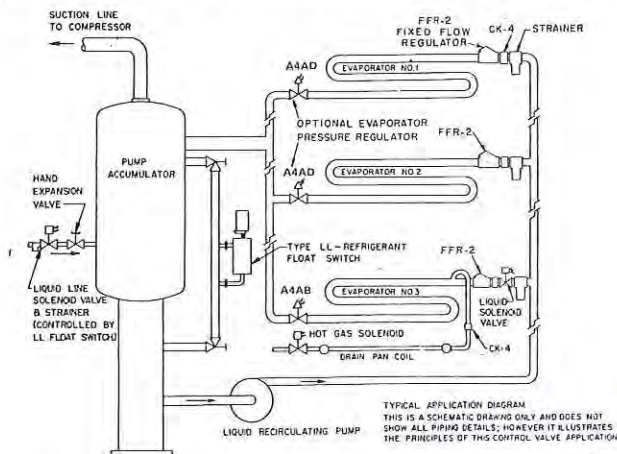
\* For liquid density of 673 kg/m<sup>3</sup> (42 lb/ft<sup>3</sup>), (Ammonia at -26°C (-15°F)). The precision of control required for typical systems makes corrections for density at other temperatures unnecessary.

#### SELECTION INFORMATION

To select the proper orifice multiply the evaporator load by the recirculation rate desired and chose the orifice with the rating closest to the calculated rating. Choosing an orifice with a lower number will decrease the recirculation rate, one with a higher number will increase it. For example: 25 kW (7 Tons) evaporator with recirculation rate of 4 = 4 x 25 = 100 kW (or 28 Tons), choose orifice No. 30 (nominal 105.5 kW or 30 Tons).

Two or more FFR-2 Regulators may be installed in parallel to obtain capacities greater than available from one. The total capacity delivered will be equal to the sum of capacities of each regulator. For example: 88 kW (25 Ton) load and 3 times recirculation equals 3 x 88 or 264 kW (or 3 x 25 or 75 Tons). A regulator with No. 60 orifice and another in parallel with No. 15 orifice would have a combined capacity of 211 + 52.8 or 263.8 kW (60 + 15 or 75 Tons).

This table also allows selections of orifices based on volumetric or mass flow. Determine the litre/sec (gpm) or kg/min (lb/min) required and select the orifice number closest to the requirements. Solenoid valves, hand valves or strainers placed upstream of the FFR-2 Regulators must be properly sized to give a low pressure drop that will not cause flashing. The FFR regulators must have 100% liquid subcooled ammonia at the inlet with no flash gas present in order to give proper liquid flow control.



### TYPE AFR - 3 FUNCTION

To maintain a constant, but adjustable flow rate and to act as a check valve. Recommended for use with Ammonia only.

#### CAPACITY

AFR-3 Regulators have the following nominal flow capacities for pressure drops from 34 to 414 kPa (5 to 60 psi). For pressure drops above or below this range, the control variation may exceed the plus or minus 20% considered acceptable.

Indicator Scale	CAPACITY		FLOW RATE		MASS FLOW *		
	kW	Tons	Litre/s	IGPM	kg/s	kg/min	lb/min
5	17.6	5	0.019	0.25	0.013	0.8	1.7
10	35.2	10	0.038	0.50	0.027	1.6	3.4
20	70.5	20	0.076	1.00	0.052	3.1	6.8
30	105.7	30	0.114	1.50	0.078	4.7	10.2
40	141.0	40	0.151	2.00	0.105	6.3	13.6
50	176.3	50	0.189	2.50	0.132	7.9	17.0
60	211.0	60	0.227	3.00	0.158	9.5	20.4

\* For liquid density of 673 kg/m<sup>3</sup> (42 lb/ft<sup>3</sup>), (Ammonia at -26°C (-15°F)). The precision of control required for typical systems makes corrections for density at other temperatures unnecessary.

#### SELECTION INFORMATION

This regulator can be adjusted to maintain a constant flow rate from 0.019 to 0.227 Litre/sec (0.25 to 3.0 lpm) of liquid ammonia at pressure drops from 34 to 414 kPa (5 to 60 psi).

This is equivalent to a refrigeration effect range from 17.6 to 211.0 kW (5 to 60 Tons) at a recirculation rate of 1 : 1 (no overfeed) or 6 to 70 kW (1.7 to 20 Tons) at a recirculation rate of 3 : 1 (200% overfeed).

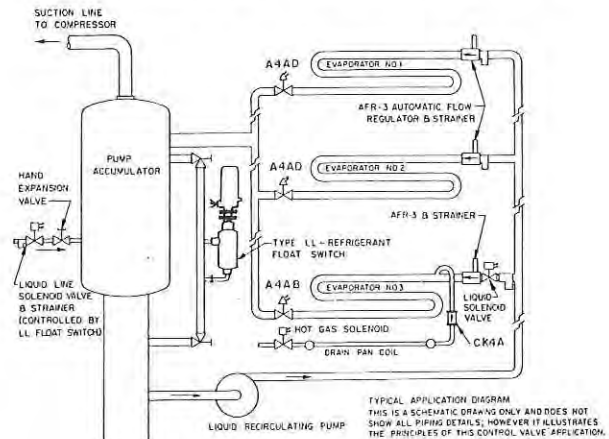
To set the regulator, multiply the evaporator load in tons by the desired recirculation rate and set the indicator scale to the resulting load. For example : 10 ton (evaporator load) x 3 (recirculation rate) = 30 (scale setting).

For Metric system usage convert load to Tons and proceed as above.

Two or more AFR-3 Regulators may be installed in parallel to obtain capacities greater than that available from one regulator. The total capacity delivered will be equal to the sum of the settings on each regulator.

#### CONVERSION FACTORS

- kW to Tons (Refrig) — Multiply kW by 0.284
- Tons (Refrig) to kW — Multiply Tons by 3.517



ORDERING PROCEDURE : TURN TO PAGE 101 AND QUOTE CATALOGUE NO. OF ITEM REQUIRED