



National Standards Commission
Cancellation
Certificate of Approval No 8/48

This is to certify that the approval for use for trade granted in respect of the

Internationale Koeling Model ZV 420 Milk Tank

submitted by Packo Fullwood Pty Ltd
13 Tilson Court
Leongatha VIC 3953

has been cancelled in respect of new instruments as from 1 May 2000.

Instruments which were verified/certified before that date may, with the concurrence of the relevant verifying authority, be submitted for reverification.

Signed and sealed by a person authorised under Regulation 63 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to be 'J. Burt', written in a cursive style.

National Standards Commission



Certificate of Approval

No 8/48

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

This is to certify that an approval for use for trade has been granted in respect of the

Internationale Koeling Model ZV 420 Milk Tank

submitted by Packo Fullwood Pty Ltd
(formerly Australian Milk Vats Cool Technical Centre)
13 Tilson Court
Leongatha VIC 3953.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 April 1997, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 8/48 and only by persons authorised by the submittor.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with the Commission's Document 106.

DESCRIPTIVE ADVICE

Pattern: approved 19 March 1992

- An Internationale Koeling model ZV 420 refrigerated milk tank of 4000 L maximum capacity. Also known as a Zero Vacuum model ZV 420.

Variants: approved 19 March 1992

1. In certain capacities as listed in Table 1.

Technical Schedule No 8/48 describes the pattern and variant 1.

Variants: approved 28 June 1996

2. In certain capacities of the LEM series as listed in Table 2.

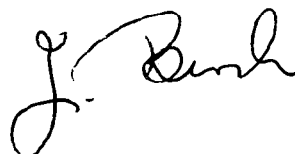
Technical Schedule No 8/48 Variation No 1 describes variant 2.

FILING ADVICE

Certificate of Approval No 8/48 dated 1 June 1992 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

- Certificate of Approval No 8/48 dated 24 September 1996
- Technical Schedule No 8/48 dated 1 June 1992 (incl. Table 1 & Test Procedure)
- Technical Schedule No 8/48 Variation No 1 dated 24 September 1996 (incl. Table 2)
- Figure 1 dated 1 June 1992

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.





National Standards Commission

TECHNICAL SCHEDULE No 8/48

Pattern: Internationale Koeling Model ZV 420 Farm Milk Tank.

Submittor: Australian Milk Vats Cool Technical Centre
13 Tilson Court
Leongatha VIC 3953.

1. Description of Pattern

An Internationale Koeling model ZV 420 horizontal refrigerated farm milk tank of 4000 L capacity (Figure 1 and Table 1) incorporating a dipstick for the measurement of the volume. Instruments may also be known as Zero Vacuum model ZV 420.

1.1 Details

- (i) The tank is a horizontal stainless steel cylinder sheathed in an outer casing of stainless steel; the cavity between is filled with insulating material. The bottom slopes towards the outlet control valve.

A milk-sampling valve is fitted to the tank.

- (ii) Levelling is effected by means of 6 adjustable legs with reference to the datum level marks permanently marked on the tank. Each leg has provision for fixing the leg to the floor. At least one leg at each end of the tank has provision for a lead and wire seal to be attached, after levelling.

- (iii) A top-mounted access hole is provided at the outlet end of the tank and incorporates a dipstick socket (Figure 1).

The dipstick is graduated in 10 L increments.

- (iv) The tank is in its prescribed position when it slopes towards the outlet at a gradient of not less than 1:220, and when the liquid level at approximately half capacity corresponds with the level mark engraved on the rear of the dipstick and with the level marks on the external surface of each corner of the tank (Figure 1).

1.2 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

1.3 Markings

The following data is marked on a nameplate permanently attached to the instrument in a clearly visible location:

Manufacturer's name or mark	
Model number	
Serial number	
NSC approval number	NSC No 8/48
Maximum capacity L

The dipstick is marked with the following data:

Manufacturer's name or mark
Datum level
Scale interval

2. Description of Variant 1

Other models in certain other capacities, with up to 10 legs, as listed in Table 1.

TABLE 1

Model Number	Maximum Capacity (litres)	Number of legs	Minimum Graduation Size (litres)
ZV 250	2 500	4	5
ZV 290	2 900	4	10
ZV 330	3 300	6	10
ZV 370	3 600	6	10
ZV 420	4 000	6	10
ZV 460	4 600	6	10
ZV 530	5 300	6	20
ZV 610	6 100	8	20
ZV 680	6 800	8	20
ZV 760	7 680	6	20
ZV 850	8 600	8	20
ZV 950	9 600	8	20
ZV 1000	10 000	8	20
ZV 1150	11 500	10	20
ZV 1200	12 000	10	20
ZV 1400	14 000	10	20

Approved Capacities

TEST PROCEDURE

Instruments should be tested in conjunction with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Error at Verification/Certification

The maximum permissible error for all scale marks on the dipstick is ± 1 scale interval.



National Standards Commission

TECHNICAL SCHEDULE No 8/48

VARIATION No 1

Pattern: Internationale Koeling Model ZV 420 Farm Milk Tank.

Submittor: Packo Fullwood Pty Ltd
(formerly Australian Milk Vats Cool Technical Centre)
13 Tilson Court
Leongatha VIC 3953.

1. Description of Variant 2

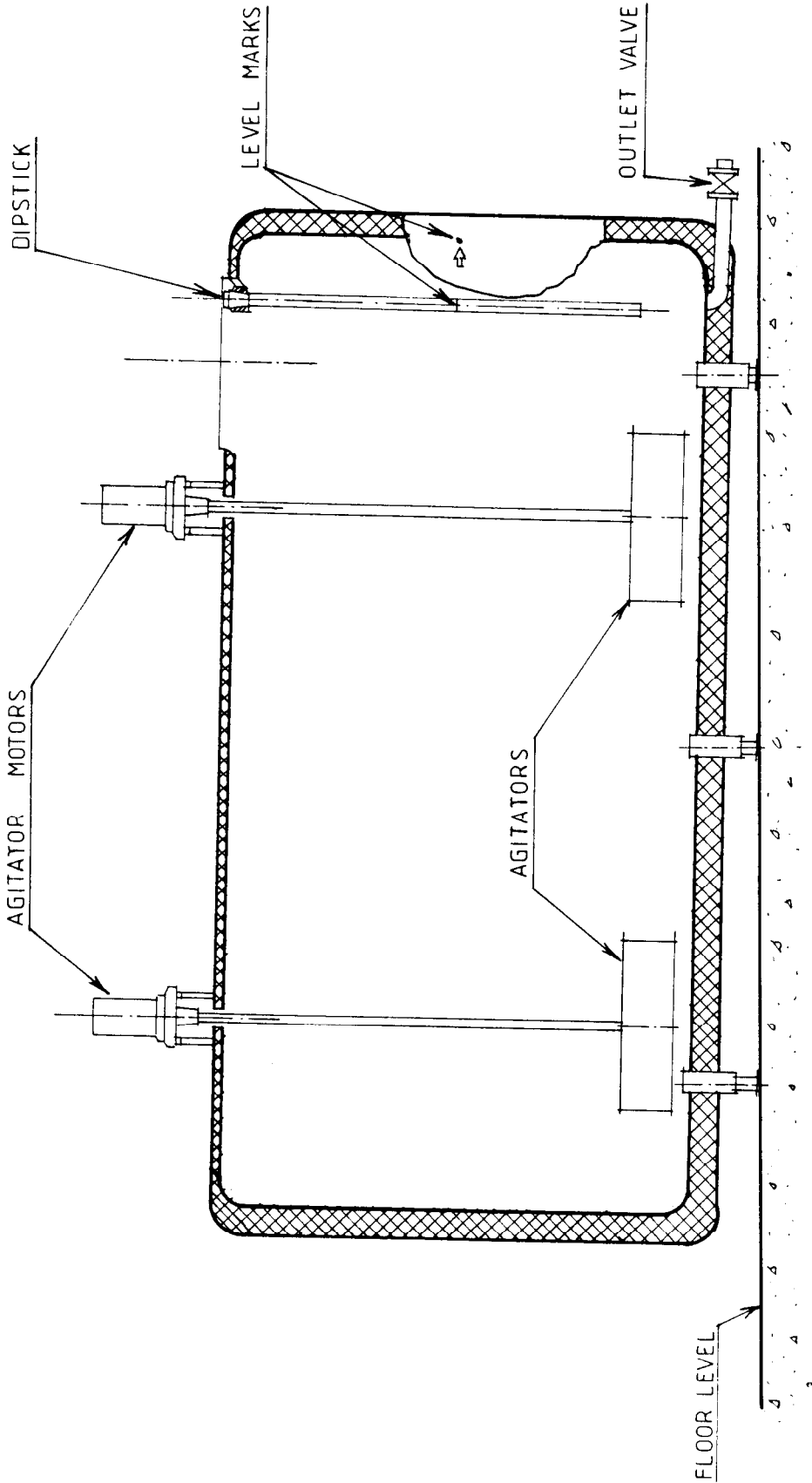
Certain models of the LEM series in capacities as listed in Table 2.

TABLE 2

Model Number	Maximum Capacity (litres)	Number of legs	Scale Interval (litres)
LEM 5000	5 000	4	10
LEM 6200	6 200	6	20
LEM 8000	8 000	8	20
LEM 10000	10 000	10	20
LEM 12000	12 000	12	20
LEM 14000	14 000	12	20
LEM 17500	17 500	14	20
LEM 21000	21 000	18	50
LEM 25000	25 000	20	50

Approved Capacities - Variant 2

FIGURE 8/48 - 1



Internationale Koeling Model ZV 420 Farm Milk Tank