

The Irish Agriculture and Food Development Authority

Milk Quality Workshop

9th December 2014

IMQCS Training Programme

Tom Ryan, Teagasc



The Irish Milk Quality Co-Operative Society (IMQCS)

- Established in 1989 to improve standards of installation, servicing and testing of milking machines
- Committee: ICOS, milking machine technicians, milking machine manufacturers and Teagasc
- ICOS provide a chairman and secretary
- Teagasc carries out the training programme
- In recent years, IMQCS has focussed on broader areas of milk quality as well as providing training and certification of the technicians.



IMQCS Milking Machine Training

- Training and certification of milking machine technicians, milk quality advisers, Teagasc staff,
 Vets, electricians, farmers, etc.
- The course covers installation and testing of milking machines to ISO standards
- Teagasc carries out the training on behalf of IMQCS.

 IMQCS secretary administers IMQCS activities
- One or two training courses a year
- Course assessment: written exam (mostly online) and

IMQCS Milking Machine Training

- Course participants are obliged to carry out a milking machine test and complete an IMQCS test report sheet for 5 milking machines on farms and submit these for assessment
- A maximum of 16 participants are allowed per course.
- The course fee is €750. Skillnet funding is available, at present, at €375 per course participant

IMQCS Register

- IMQCS maintains a register of trained and certified milking machine technicians.
- The resister is updated annually.
- At present there are about 227on the register.
- The register can be viewed on the www.milkquality.ie
- Annual registration fee of €100
- A refresher course/seminar is mandatory every years.

 The Irish Agriculture and Food Development Authority



Irish Milk Quality Co-Operative Society Ltd.

Tuesday, July 16, 2013

Home

Mission Statement

Committee

Co-Operatives

Technician Register

Training Programme

Teagasc IMQCS Manual

Milk Quality Handbook

Recent Publications

Detergent Analysis

Milk Quality Tools

Flukecide Information

Seminar Documentation

Contact Us









Home - Contact Us

Welcome to milkquality.ie

The Irish Milk Quality Co-operative Society has its registered office at 84 Merrion Square, Dublin 2.

The organisation was incorporated in 1989 with the aim to improve milk quality standards in Ireland and to ensure that Irish milking machine installation and testing standards equate with the best international standards.

The IMQCS interprets the ISO international standards on milking equipment for use in Ireland and defines further additional reccomendations.

The organisation maintains a list of milking machine technicians which have undergone approved training and certification.







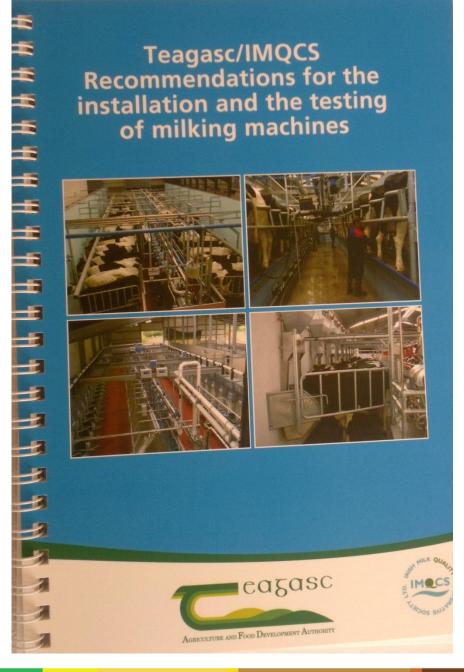




-IMQCS-

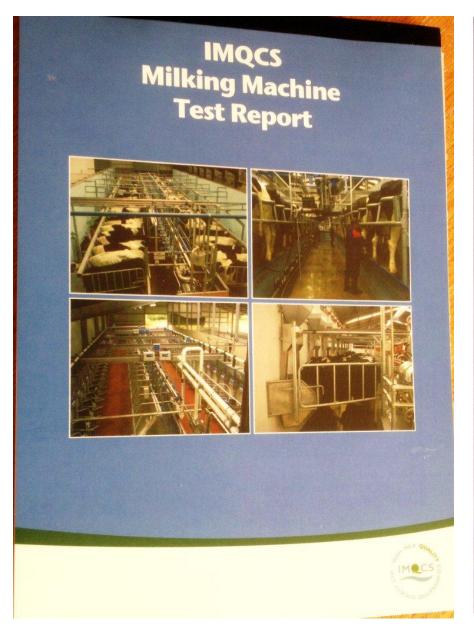
www.milkquality.ie





IMQCS committee produced this booklet - a user friendly manual based on the relevant ISO standards





Working vacuum recommended with the machine In the milking position (liners plugged) 1a. Working vacuum at Vr; machine in the milking position (liners plugged) 1b. Working vacuum at Vr; machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm; machine ready for milking Pa Apa Apa Apa Apa Apa Apa Apa	Vacuum and Airflow Test Results 1. Working vacuum at Vm machine in the milking position (liners plugged) Working vacuum recommended with the machine in the milking position (liners plugged) 1a. Working vacuum at Vm machine in the milking position (liners plugged) 1b. Working vacuum at Vp; machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm; machine ready for milking 1d. Plant gauge vacuum leveb machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Plant gauge vacuum leveb machine ready for milking 1e. Plant gauge vacuum leveb machine ready for milking 1e. Plant gauge vacuum leveb machine ready for milking 1e. Pump capacity AFM direct to pump, test gauge at Vp 1a. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp 1a. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp		kPa kPa kPa kPa kPa	7.	IMQCS Reg. no. 37.77.51 Airflow with ancillary equipment connected to milkine added, m in the milking position (ilmers plugged), test at A2 and Vr or Vp Milking system ancillary equipment usage (5-6) Airflow with pulsators added; machine in the milking position (ilmers plugged), test at A2 and Vr or Vp Pulsation usage (6-7) Airflow with ancillary equipment connected to airline added; machine the milking position (ilmers plugged), test at A2 and Vr or Vp Airline ancillary equipment usage (7-8) Manual reserves machine in the milking position (ilmers plugged) regulator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm	hine	Vmin Vmin Vmin Vmin
Vacuum and Airflow Test Results 1. Working vacuum at Vru machine in the milking position (liners plugged) Working vacuum at Vru machine in the milking position (liners plugged) Working vacuum recommended with the machine in the milking position (liners plugged) Ja. Working vacuum at Vr. machine in the milking position (liners plugged) Ja. Working vacuum at Vr. machine in the milking position (liners plugged) Ja. Working vacuum at Vr. machine in the milking position (liners plugged) Le Working vacuum at Vr. machine ready for milking position (liners plugged) Le Working vacuum at Vr. machine ready for milking position (liners plugged) Le Working vacuum at Vr. machine ready for milking position (liners plugged) Le Wacuum machine in the milking position (liners plugged), requisitor (s) plugged, drop vacuum 242 place with vacuum yauge accuracy (1d-1e) Repulsation provided (liners plugged), requisitor (s) plugged, requisitor (s) plugged, drop vacuum 242 place with vacuum yauge accuracy (1d-1e) Repulsation provided (liners plugged), requisitor (s) plugged, requisitor (s) plugged, drop vacuum 242 place with vacuum yauge accuracy (1d-1e) Repulsation provided (liners plugged), requisitor (s) plugged, requisitor (s) plugged, requisitor (s) plugged, requisitor (s) plugged, drop vacuum 242 place with vacuum yauge accuracy (1d-1e) Repulsation provided (liners plugged), requisitor (s) plugged, requisitor (s) plugged (liners plugged), requisitor (s) plugged, requisitor (s) plugged (liners plugged), requisitor (s) plugged, requisitor (s) plugged (liners plugged), requisitor (s) plugged (liners plugged), requisitor (s) plugged, requisitor (s) requ	Vacuum and Airflow Test Results 1. Working vacuum at Vm machine in the milking position (liners plugged) Working vacuum recommended with the machine in the milking position (liners plugged) 1a. Working vacuum at Vm machine in the milking position (liners plugged) 1b. Working vacuum at Vp; machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm; machine ready for milking 1d. Plant gauge vacuum leveb machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Plant gauge vacuum leveb machine ready for milking 1e. Plant gauge vacuum leveb machine ready for milking 1e. Plant gauge vacuum leveb machine ready for milking 1e. Pump capacity AFM direct to pump, test gauge at Vp 1a. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp 1a. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp		kPa kPa kPa kPa kPa	7.	Airflow with ancillary equipment connected to milkline added, me in the milking position (liners plugged), test at A2 and Vr or Vp Milking system ancillary equipment usage 6-6). Airflow with pulsators added; machine in the milking position (liners plugged), test at A2 and Vr or Vp Pulsation usage 6-7). Airflow with ancillary equipment connected to airline added; machine in the milking position (liners plugged), test at A2 and Vr or Vp Airflow with ancillary equipment usage (7-8). Manual reserves machine in the milking position (liners plugged) and reserves machine in the milking position (liners plugged) are viewed to the view of the milking position (liners plugged), are viewed to the view of view of view of viewed vie	hine	Vmin Vmin Vmin
position (liners plugged) Working vacuum recommended with the machine in the milking position (liners plugged) Working vacuum recommended with the machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Plant vacuum at Ver machine ready for milking Ja. Plant vacuum gauge accuracy (1-d-1e) Pump capacity; AFM direct to pump, test gauge at Vp Ja. Pump paped Ja. Airflow with valcuum system, machine in the milking position (liners plugged), etc. Ja. Pump paped Ja. Airflow with valcuum system, machine in the milking position (liners plugged), etc. Ja. Airflow with vacuum system, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with vacuum system, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, drop vacuum at Very (long the milking position (liners plugged), etc. Ja. Airflow with nilk system at A2 and Vror Vp Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, drop vacuum at Very (long the milking posi	1. Working vacuum at Vm machine in the milking position (liners plugged) Working vacuum recommended with the machine in the milking position (liners plugged) 1a. Working vacuum at Vm machine in the milking position (liners plugged) 1b. Working vacuum at Vp machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm machine ready for milking 1d. Plant gauge vacuum level: machine ready for milking 1e. Vacuum near plant vacuum gauge at Vm machine ready for milking 1e. Pump capacity AFM direct to pump, test gauge at Vp 1a. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp 1a. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp		kPa kPa kPa kPa kPa	7.	Milking system ancillary equipment usage 5-6 . Airflow with pulsators added: machine in the milking position (liners plugged), test at A2 and Vr or Vp Pulsation suage (6-7). Airflow with ancillary equipment connected to airline added; machine in the milking position (liners plugged), test at A2 and Vr or Vp Airflow with ancillary equipment connected to airline added; machine ham to be a simple of the milking position (liners plugged), est at A2 and Vr or Vp Airline ancillary equipment usage (7-8). Manual reserve; machine in the milking position (liners plugger equilator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm	hine	Vmin Vmin Vmin
position (liners plugged) Working vacuum recommended with the machine in the milking position (liners plugged) Working vacuum recommended with the machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Working vacuum at Ver machine in the milking position (liners plugged) Ja. Plant vacuum at Ver machine ready for milking Ja. Plant vacuum gauge accuracy (1-d-1e) Pump capacity; AFM direct to pump, test gauge at Vp Ja. Pump paped Ja. Airflow with valcuum system, machine in the milking position (liners plugged), etc. Ja. Pump paped Ja. Airflow with valcuum system, machine in the milking position (liners plugged), etc. Ja. Airflow with vacuum system, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with vacuum system, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, drop vacuum at Very (long the milking position (liners plugged), etc. Ja. Airflow with nilk system at A2 and Vror Vp Ja. Airflow with nilk system added, machine in the milking position (liners plugged), etc. Ja. Airflow with nilk system added, drop vacuum at Very (long the milking posi	1. Working vacuum at Vm machine in the milking position (liners plugged) Working vacuum recommended with the machine in the milking position (liners plugged) 1a. Working vacuum at Vm machine in the milking position (liners plugged) 1b. Working vacuum at Vp machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm machine ready for milking 1d. Plant gauge vacuum level: machine ready for milking 1e. Vacuum near plant vacuum gauge at Vm machine ready for milking 1e. Pump capacity AFM direct to pump, test gauge at Vp 1a. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp 1a. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp		kPa kPa kPa kPa kPa	7.	Milking system ancillary equipment usage 5-6 . Airflow with pulsators added: machine in the milking position (liners plugged), test at A2 and Vr or Vp Pulsation suage (6-7). Airflow with ancillary equipment connected to airline added; machine in the milking position (liners plugged), test at A2 and Vr or Vp Airflow with ancillary equipment connected to airline added; machine ham to be a simple of the milking position (liners plugged), est at A2 and Vr or Vp Airline ancillary equipment usage (7-8). Manual reserve; machine in the milking position (liners plugger equilator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm	hine	Vmin Vmin Vmin
Notice Position (theres plugged) Sept and You Provided Sept and You Pr	position (liners plugged) Working vacuum recommended with the machine in the milking position (liners plugged) Ja. Working vacuum at Vr. machine in the milking position (liners plugged) Ja. Working vacuum at Vp; machine in the milking position (liners plugged) Lo. Vacuum in the milking system at Vm; machine ready for milking Ja. Plant gauge vacuum level: machine ready for milking Vacuum near plant vacuum gauge at Vr; machine ready for milking Plant vacuum gauge accuracy (1d-1e) Plant vacuum gauge accuracy (1d-1e) Pump capacity; AFM direct to pump, test gauge at Vp Ja. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp		kPa kPa kPa kPa kPa	7.	Milking system ancillary equipment usage 5-6 . Airflow with pulsators added: machine in the milking position (liners plugged), test at A2 and Vr or Vp Pulsation suage (6-7). Airflow with ancillary equipment connected to airline added; machine in the milking position (liners plugged), test at A2 and Vr or Vp Airflow with ancillary equipment connected to airline added; machine ham to be a simple of the milking position (liners plugged), est at A2 and Vr or Vp Airline ancillary equipment usage (7-8). Manual reserve; machine in the milking position (liners plugger equilator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm	hine	Vmin Vmin Vmin
Working vacuum a trememended with the machine in the milking position (liners plugged) 1a. Working vacuum at Vy machine in the milking position (liners plugged) 1b. Working vacuum at Vy machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm machine ready for milking 1c. Vacuum in the milking system at Vm machine ready for milking 1c. Vacuum in the milking system at Vm machine ready for milking 1c. Vacuum in the milking system at Vm machine ready for milking 1c. Vacuum near plant vacuum gauge at Vm machine ready for milking 1e. Vacuum near plant vacuum gauge at Vm machine ready for milking 1e. Vacuum near plant vacuum gauge at Vm machine ready for milking 1e. Vacuum near plant vacuum gauge at Vm machine ready for milking 1e. Vacuum near plant vacuum gauge accuracy (1d-te) 2. Pump capacity; AFM direct to pump, test gauge at Vp 2. Pump capacity; AFM direct to pump, test gauge at Vp 2. Pump capacity; AFM direct to pump, test gauge at Vp 2. Pump capacity at SORPs. AFM direct to pump, test gauge at Vp 2. Pump capacity at SORPs. AFM direct to pump, test gauge at Vp 3. Airflow with vacuum system; machine in the milking 4. Paint vacuum system; machine in the milking 5. Definition of the properties of the prope	Working vacuum recommended with the machine in the milking position (liners plugged) 1a. Working vacuum at Vr; machine in the milking position (liners plugged) 1b. Working vacuum at Vp; machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm; machine ready for milking 1d. Plant gauge vacuum level; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum		kPa kPa kPa kPa kPa	9.	Airflow with pulsators added; machine in the milking position (liners plugged, test at A2 and Vr or Vp Pulsation usage (6-7) Airflow with ancillary equipment connected to airline added; mad in the milking position (liners plugged), test at A2 and Vr or Vp Airflow ancillary equipment usage (7-8) Manual reserves machine in the milking position (liners plugger regulator(s) plugged, drop vacuum ZkPa below no. 1, test at A1 and Vm	-	l/min l/min
In the milking position (liners plugged) 1a. Working vacuum at Vyr machine in the milking position (liners plugged) 1b. Working vacuum at Vyr machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vyr machine in the milking position (liners plugged). Lest at A2 and Vyr or Vy	in the milking position (liners plugged) 1a. Working vacuum at Vr; machine in the milking position (liners plugged) 1b. Working vacuum at Vp; machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm; machine ready for milking 1d. Plant gauge vacuum level; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e.		kPa kPa kPa kPa	9.	omers puugged), test at A2 and Vr or Vp Pulsation usage (6-7) Airflow with ancillary equipment connected to airline added; mad in the milking position (liners plugged), test at A2 and Vr or Vp Airline ancillary equipment usage (7-8) Manual reserve; machine in the milking position (liners plugger regulator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm	-	l/min
18. Working vacuum at Vyr machine in the milking position (liners plugged) 18. Working vacuum at Vyr machine in the milking position (liners plugged) 19. Working vacuum at Vyr machine in the milking position (liners plugged). Item at A2 and Vyr or Vy Airline ancillary equipment connected to airline added: machine in the milking position (liners plugged), test at A2 and Vyr or Vy Airline ancillary equipment usage (7-8) 10. Vacuum in the milking system at Vir; machine ready for milking 11. Vacuum in the milking system at Vir; machine ready for milking 12. Vacuum in the milking system at Vir; machine ready for milking 13. Warking accuracy (1d-1e) 14. Pant gauge vacuum level; machine ready for milking 15. Vacuum near plant vacuum gauge at Vir; machine ready for milking 16. Plant gauge vacuum level; machine ready for milking 17. Lest at A1 and Vir 18. Pant vacuum gauge accuracy (1d-1e) 18. Pump capacity at 50kPa, AFM direct to pump, test gauge at Vp 18. Pump capacity at 50kPa, AFM direct to pump, test gauge at Vp 18. Pump speed 18. Effective reserve ranchine in the milking position (liners plugged), required claning reserve. Witchew is greater 18. Requisition sensitivity (1c-1) 18. Regulation sensitivity (1c-1) 18. Regulation overshoot 18. Regulation overshoot 19. Fall off/etatachment vacuum drops open one unit per 32 units 18. Regulation overshoot 19. Fall off/etatachment vacuum drops open one unit per 32 units 19. Fall off/etatachment vacuum drops open one unit per 32 units 19. Airflow with requisitoric machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp 19. Umin 19. Airflow with milk system added: machine in the milking position (liners plugged), test at A1 and Vr 19. Airflow with requisitoric machine in the milking position (liners plugged), test at A1 and Vr 19. Airflow with requisitoric machine in the milking posit	Working vacuum at Vr. machine in the milking position (liners plugged) Working vacuum at Vp: machine in the milking position (liners plugged) Working vacuum in the milking system at Vm: machine ready for milking Id. Plant gauge vacuum level: machine ready for milking Id. Vacuum near plant vacuum gauge at Vr. machine ready for milking Plant vacuum gauge accuracy (1d-1e) Pump capacity: AFM direct to pump, test gauge at Vp Imachine ready for milking Plant vacuum gauge accuracy (1d-1e) Pump capacity: AFM direct to pump, test gauge at Vp Imachine ready for milking Plant vacuum gauge accuracy (1d-1e) Pump capacity: AFM direct to pump, test gauge at Vp Imachine ready for milking Imachine r		kPa kPa kPa kPa	9.	Pulsation usage (6-7) Airflow with ancillary equipment connected to airline added; madint the milking position (liners plugged), test at A2 and Yor Vy Airline ancillary equipment usage (7-8) Manual reserves machine in the milking position (liners plugger regulator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm	-	l/min
miking position (liners plugged) 1b. Working vacuum at Vp; machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm; machine ready for milking 1c. Vacuum in the milking system at Vm; machine ready for milking 1d. Plant gauge vacuum level; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum gauge accuracy (1d-1e) 2. Pump capacity, affed direct to pump, test gauge at Vp 2. Pump capacity, affed direct to pump, test gauge at Vp 2. Pump capacity, affed direct to pump, test gauge at Vp 2. Pump speed 2. Pump capacity affed direct to pump, test gauge at Vp 3. Airflow with a and Ym or Vp follow procedures in 107 of Teagasc/IMQCS Marual 4. Airflow with milk system added, machine in the milking position (liners plugged), aritine collay added, regulator(s) plugged, test at A2 and Vr or Vp follow procedures in 107 of Teagasc/IMQCS Marual 4. Airflow with milk system added, machine in the milking position (liners plugged), exist at A2 and Vr or Vp Claw air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Claw air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Claw air admission (4-5) Pulsation Test Results Rate c/min **Por Phase vacuum kPa **Max Min **Min Max Min **Min Max Min Min Milking point at A2 and Wr or Vp **Limin Milking position (liners plugged), test at A2 and Wr or Vp **Limin Milking position (liners plugged), test at A2 and Wr or Vp **Limin Milking position (liners plugged), test at A2 and Wr or Vp **Limin Milking position (liners plugged), test at A2 and Wr or Vp **Limin Milking position (liners plugged), test at A2 and Wr or Vp **Limin Milking position (liners plugged), test at A2 and Wr or Vp **Limin Milking position (liners plugged), test at A2 and Wr or Vp **Limin Milking position (liners plugged), add regulator(s) does does doe	miliking position (liners plugged) 1b. Working vacuum at Vp; machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm; machine ready for milking 1d. Plant gauge vacuum level; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1plant vacuum gauge accuracy (1d-1e) 1. Pump capacitry; AFM direct to pump, test gauge at Vp 1a. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp		kPa kPa kPa	9.	Airflow with ancillary equipment connected to airline added: mad in the milking position (liners plugged), test at A2 and Vr or Vp Airline ancillary equipment usage (7-8) Manual reserve; machine in the milking position (liners plugge regulator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm	-	l/min
position (liners plugged) 1c. Vacuum in the milking system at Vm; machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm; machine ready for milking 1e. Plant gauge vacuum level; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 2. Pump capacity; AFM direct to pump, test gauge at Vp 2. Pump capacity; AFM direct to pump, test gauge at Vp 2. Pump speed 2. Pump speed 2. Pump pacapacity; AFM direct to pump, test gauge at Vp 2. Pump pacapacity; AFM direct to pump, test gauge at Vp 2. Pump speed 2. Pump speed 3. Airflow with vacuum system; machine in the milking position (liners plugged), airline only added, regulator(s) plugged, test at A2 and Vr or Vp follow procedures in 10.7 of Teagasc/IMQCS Manual Umin Alirine (lakage (2-3)) 4. Airflow with milk system added; machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp Claw air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Claw air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Claw air admission (4-5) Pulsation Test Results Reacter min Max Min	position (liners plugged) Lc. Vacuum in the milking system at Vm; machine ready for milking Ld. Plant gauge vacuum level; machine ready for milking Le. Vacuum near plant vacuum gauge at Vr; machine ready for milking Plant vacuum gauge accuracy (1d-1e) L. Pump capacity; AFM direct to pump, test gauge at Vp La. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp La. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp		kPa kPa kPa	9.	an the missing position (liners plugged), test at A2 and Vr or Vp Airline ancillary equipment usage (7-8) Manual reserve; machine in the milking position (liners plugger regulator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm	-	
Aline ancillary equipment usage (7-8) Vocuum in the milking system at Vm; machine ready for milking ready for milking system at Vm; machine ready for milking position (liners plugged), regulator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm Regulation loss (9-10) Limin System system; machine in the milking position (liners plugged), regulator(s) added, drop vacuum 2kPa below no. 1, test at A1 and Vm Regulation loss (9-10) Limin System system; machine in the milking position (liners plugged), regulator(s) added, drop vacuum 2kPa below no. 1, test at A1 and Vm Regulation loss (9-10) Limin System system; machine in the milking position (liners plugged), arifine only added, regulator(s) plugged test at A2 and Vr or Vp follow procedures in 10.7 of Teagasc/IMQCS Manual Limin system; machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp Claw air admission at claws open; machine in the milking position (liners plugged), arifine and machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp Limin Claw air admission at claws open; machine in the milking position (liners plugged), close claw air admission at claws open; machine in the milking position (liners plugged), close claw air admission of 4-5) Limin System leakage (3-4) Limin Sys	position (liners plugged) Lc. Vacuum in the milking system at Vm; machine ready for milking Ld. Plant gauge vacuum level; machine ready for milking Le. Vacuum near plant vacuum gauge at Vr; machine ready for milking Plant vacuum gauge accuracy (1d-1e) L. Pump capacity; AFM direct to pump, test gauge at Vp La. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp La. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp		kPa kPa		Amnual reserve; machine in the milking position (liners plugge regulator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm	ed),	
1c. Vacuum in the milking system at Vm; machine ready for milking 1d. Plant gauge vacuum leveb machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking 2. Pump capacity; AFM direct to pump, test gauge at Vp 2. Pump capacity; AFM direct to pump, test gauge at Vp 2. Pump speed 2. Pump speed 2. Pump speed 3. Airflow with vacuum system; machine in the milking position (liners plugged), airline only added, regulatoris plugged, test at A2 and Vr or Vp follow procedures in 10.7 of Teagasc/MQCS Manual 2. Airflow with vacuum system; machine in the milking position 3. Airflow with milk system added; machine in the milking position 4. Airflow with milk system added; machine in the milking position 6. Airflow with milk system added; machine in the milking position 6. Airflow with air admission at claws open; machine in the milking position 6. Airflow with air admission at claws open; machine in the milking position 6. Airflow with air admission at claws open; machine in the milking position 6. Airflow with peulatoris; machine in the milking position 6. Airflow with peulatoris; machine in the milking position 6. Airflow with peulatoris; machine in the milking position 6. Airflow with peulatoris; machine in the milking position 6. Airflow with peulatoris; machine in the milking position 6. Airflow with peulatoris; machine in the milking position 6. Airflow with peulatoris; machine in the milking position 6. Airflow with peulatoris, drop vacuum 2kPa 6. below 1a, test at A1 and Vr 7. Airflow with peulatoris, drop vacuum 2kP	ready for milking d. Plant gauge vacuum level; machine ready for milking le. Vacuum near plant vacuum gauge at Vr; machine ready for milking Plant vacuum gauge accuracy (1d-1e) Pump capacity; AFM direct to pump, test gauge at Vp la. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp	=	kPa kPa		regulator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm	ed),	e di igi
ready for milking I.e. Vacuum near plant vacuum gauge at Vr; machine ready for milking plant vacuum par plant vacuum gauge at Vr; machine ready for milking plant vacuum gauge at Vr; machine ready for milking plant vacuum gauge accuracy (1d-1e) Pump capacity; AFM direct to pump, test gauge at Vp Pump capacity; AFM direct to pump, test gauge at Vp Pump papacity; AFM direct to pump, test gauge at Vp Estimated pump capacity required pump capacity require	ready for milking d. Plant gauge vacuum level; machine ready for milking le. Vacuum near plant vacuum gauge at Vr; machine ready for milking Plant vacuum gauge accuracy (1d-1e) Pump capacity; AFM direct to pump, test gauge at Vp la. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp	=	kPa		regulator(s) plugged, drop vacuum 2kPa below no. 1, test at A1 and Vm		
1d. Plant gauge vacuum level; machine ready for milking 1e. Vacuum near plant vacuum gauge at Vr; machine ready for milking Plant vacuum gauge accuracy (1d-1e) 2. Pump capacity; AFM direct to pump, test gauge at Vp Limin 2. Pump capacity; af 50kPy; AFM direct to pump, test gauge at Vp Limin 2. Pump capacity at 50kPy; AFM direct to pump, test gauge at Vp Limin Estimated pump capacity required Limin 3. Airflow with vacuum system; machine in the milking position (liners plugged), afkine only added, regulatoris) plugged, test at A2 and Vr or Vp follow procedures in 107 of Teagasc/IMQCS Manual Limin Milking system leakage (2-3) 4. Airflow with milk system added; machine in the milking position (liners plugged), clote claw air admission; test at A2 and Vr or Vp Limin Milking system leakage (3-4) 5. Airflow with air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Limin Claw air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Limin Claw air admission of the milking position Milking system leakage (3-4) Pulsation Test Results Max Min May May Min May Min May Min May Min May May May Min May	Nacuum near plant vacuum gauge at Vr; machine ready for milking Plant vacuum gauge accuracy (1d-1e) Pump capacity; AFM direct to pump, test gauge at Vp Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp		kPa	10.		_	
16. Vacuum near plant vacuum gauge at Vr; machine ready for milking Plant vacuum gauge accuracy (1d-1e) kPa Pump capacity; AFM direct to pump, test gauge at Vp Umin 2a. Pump capacity; AFM direct to pump, test gauge at Vp Umin Estimated pump capacity at 50kPa; AFM direct to pump, test gauge at Vp Umin Estimated pump capacity at 50kPa; AFM direct to pump, test gauge at Vp Umin Estimated pump capacity at 50kPa; AFM direct to pump, test gauge at Vp Umin Estimated pump capacity at 50kPa; AFM direct to pump, test gauge at Vp Umin Airflow with vacuum system; machine in the milking position (liners plugged), ariline only added, regulator(s) plugged, test at A 2 and Vr or Vp for follow procedures in 10.7 of Teagas/c/MOCS Manual Umin Airflow with milk system added; machine in the milking position (liners plugged), close claw air admission, test at A2 and Vr or Vp Minking system leakage (3-4) Umin (liners plugged), close claw air admission, test at A2 and Vr or Vp Umin (liners plugged), test at A2 and Vr or Vp Umin (liners plugged), test at A2 and Vr or Vp Umin (liners plugged), test at A2 and Vr or Vp Umin (liners plugged), test at A2 and Vr or Vp Umin (liners plugged), test at A2 and Vr or Vp Umin (liners plugged), test at A2 and Vr or Vp Umin (liners plugged), test at A2 and Vr or Vp Umin (liners plugged), test at A2 and Vr or Vp Umin (liners plugged), test at A2 and Vr or Vp Umin (liners plugged), test at A2 and Vr or Vp Umin (liners plugged), test at A1 and Vr Umin (liners plugged), and regulatoris) plugged drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), and regulatoris) plugged drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), and regulatoris) plugged drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), and regulatoris) plugged drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), and regulatoris) plugged drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), and regulatoris) plugged drop vacuum 2kPa below 1a, test at A1 and Vr Umin (lin	Nacuum near plant vacuum gauge at Vr; machine ready for milking Plant vacuum gauge accuracy (1d-1e) Pump capacity; AFM direct to pump, test gauge at Vp Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp			10.	Effective reserve; machine in the milking position		I/min
Plant vacuum gauge accuracy (1d-1e) 2. Pump capacity; AFM direct to pump, test gauge at Vp 22. Pump capacity; AFM direct to pump, test gauge at Vp 23. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp 24. Pump speed Estimated pump capacity required 25. Pump speed Estimated pump capacity required 26. Airflow with vacuum system; machine in the milking position (liners plugged), afrine only added, regulatoris) plugged, test at A 2 and Vr or Vp follow procedures in 10.7 of Teagasc/IMQCS Manual Airflow with milk system added; machine in the milking position (liners plugged), dose daw air admission; test at A2 and Vr or Vp Milking system leakage (3-4) Airflow with air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Milking system leakage (3-4) Claw air admission (4-5) Claw air admission (4-5) Claw air admission (4-5) Faults Faults Faults Faults Faults Repulation loss (9-10) Monte Test 1 and Mr 10. Regulation loss (9-10) Monte Test 1 and Vr 11. Regulation sensitivity (1c-1) 12. Exhaust back pressure (positive pressure); test gauge at Pe 14. Regulation overshoot 15. Regulation overshoot 16. Airflow without regulator(s); machine in the milking position (liners plugged), dose daw air admission; test at A2 and Vr or Vp 17. Airflow with milk regulator(s); machine in the milking position (liners plugged), dose (awa) 18. Regulation overshoot 18. Regulation overshoot 18. Regulation overshoot 19. Regulator(s); machine in the milking position (liners plugged), dose (awa) 19. Airflow with paulicy (s); machine in the milking position (liners plugged), dose (awa) 10. Airflow with regulator(s); machine in the milking position (liners plugged), dose (awa) 10. Airflow with regulator(s); machine in the milking position (liners plugged), dose (awa) 10. Airflow with regulator(s); machine in the milking position (liners plugged), dose (awa) 10. Airflow with regulator(s); machine in the milking position (liners plugged), dose (ready for milking Plant vacuum gauge accuracy (1d-1e) Pump capacity; AFM direct to pump, test gauge at Vp Ia. Pump capacity at S0kPa; AFM direct to pump, test gauge at Vp	_	kPa				
Plant vacuum gauge accuracy (1d-1e) 2. Pump capacity; AFM direct to pump, test gauge at Vp 2. Pump capacity; AFM direct to pump, test gauge at Vp 2. Pump speed Estimated pump capacity required 3. Airflow with pacuam system; machine in the milking position filmers plugged, aftire only added, regulatoris plugged test at A2 and Vr or Vp follow procedures in 10.7 of Teagasc/IMQCS Manual 4. Airflow with mallik system added, machine in the milking position (liners plugged), close claw air admission, test at A2 and Vr or Vp Milking system leakage (3-4) 5. Airflow with air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Claw air admission (4-5) Pull Sation Test Results Regulation ioss (9-10) Note: Test 16 and 17 must be carried out at routine testing if 'Regulation Lors' exceeds 3 if time or 9% of manual reserve, whichever is greater Required cleaning reserve Umin 1. Regulation sensitivity (1c-1) 1. Regulation ioss (9-10) Note: Test 16 and 17 must be carried out at routine testing if 'Regulation Lors' exceeds 3 if time or 9% of manual reserve, whichever is greater Required cleaning reserve Umin 1. Regulation sensitivity (1c-1) 1. Regulation sensit	t. Pump capacity; AFM direct to pump, test gauge at Vp la. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp	_	Let m				
2. Pump capacity; AFM direct to pump, test gauge at Vp 2. Pump capacity at SikPa, AFM direct to pump, test gauge at Vp 2. Pump capacity at SikPa, AFM direct to pump, test gauge at Vp 2. Pump capacity at SikPa, AFM direct to pump, test gauge at Vp 2. Pump speed Estimated pump capacity required 3. Airflow with vacuum system; machine in the milking position (liners plugged), airfine of the pump test at A2 and Vr or Vp follow procedures in 107 of Teagasc/IMQCS Manual 4. Airflow with milk system added; machine in the milking position (liners plugged), close claw air admission at claws open; machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp 4. Airflow with air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp 4. Airflow with air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp 4. Airflow with air admission (4-5) 4. Airflow with air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp 4. Airflow with air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp 4. Airflow with air admission of the milking position (liners plugged), test at A2 and Vr or Vp 5. Airflow with air admission of the milking position (liners plugged), test at A2 and Vr or Vp 6. Airflow with regulatoris) machine in the milking position (liners plugged), test at A2 and Vr or Vp 6. Airflow with regulatoris) machine in the milking position (liners plugged), and requilatoris) machine in the milking position (liners plugged), and requilatoris) machine in the milking position (liners plugged), and requilatoris) machine in the milking position (liners plugged), and requilatoris) machine in the milking position (liners plugged), and requilatoris) machine in the milking position (liners plugged), and requilatoris) machine in the milking position (liners plugged), and requilatoris) machine in the milking position (liners	la. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp	-	LDa.				
2a. Pump capacity at S0kPa; AFM direct to pump, test gauge at Vp	la. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp				Note: Test 16 and 17 must be carried out at musting testing of "Regulation	00	l/min
2b. Pump speed Estimated pump capacity required Jimin Airflow with vacuum system; machine in the milking position (liners plugged), a line only added, regulatoris) plugged test at A2 and Vr or Vp follow procedures in 10.7 of Teagasc/IMQCS Manual Airflow with milk system added; machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp Milking system leakage (3-4) Airflow with air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Claw air admission (4-5) Pulsation Test Results Required defective reserve Jimin 11. Regulation sensitivity (1c-1) 12. Exhaust back pressure (gootity pressure); test gauge at Pe 14. Regulation undershoot Airflow with milk system added; machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp I/min Airflow with productive frequisator(s); machine in the milking position (liners plugged), close claw air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Limin Claw air admission (4-5) Pulsation Test Results Recurrence Max Min Max Min					LUSS exceeds 35 litres or 5% of manual reserve, whichever is greater		
Estimated pump capacity required Junio Airlinow with vacuum system; machine in the milking position (liners plugged), altrine only added, regulator(s) plugged, test at A2 and Vr or Vp follow procedures in 10.7 of Teagasc/IMQCS Manual Airline leakage (2-3) 4. Airlinow with milk system added; machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp Milking system leakage (3-4) 5. Airlinow with air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Limin Claw air admission (4-5) Claw air admission (4-5) Faults Faults Faults Faults Faults Regulation overshoot 15. Regulation overshoot 16. Airlinow without regulator(s); machine in the milking position (liners plugged), close claw air admission (est at A2 and Vr or Vp Limin 2kPa below 1a, test at A1 and Vr 17. Airlinow with regulator(s); machine in the milking position (liners plugged), test at A2 and Vr or Vp Limin Claw air admission (4-5) Faults Faults Regulation reserve Limin 18. Regulation overshoot 18. Regulation overshoot 19. Regulation overshoot 19. Regulator (positive pressure); test gauge at Pe 19. Airlinow with nulk system leakage (10-10) 19. Regulation overshoot 10. Airlinow without regulator(s) plugged, drop vacuum ilking position (liners plugged), dod regulator(s) plugged, requisator(s)		1				_	I/min
3. Airflow with vacuum system; machine in the milking position (liners plugged), ariline only added, regulatoris) juuged, test at A2 and Vr or Vp follow procedures in 10.7 of Teagasc/IMQCS Manual Umin Airfline leakage (2-3) 4. Airflow with milk system added, machine in the milking position (liners plugged), dose claw air admission; test at A2 and Vr or Vp Umin (liners plugged), elose claw air admission; test at A2 and Vr or Vp Umin (liners plugged), dose claw air admission at claws open; machine in the milking position (liners plugged), elose claw air admission at claws open; machine in the milking position (liners plugged), elose tax A2 and Vr or Vp Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr Umin (liner	Estimated pump capacity required		Total Control				
position (liners plugged), airline only added, regulator(s) plugged, text at A2 and Vr or Vp follow procedures in 10.7 of Teagasc/IMQCS Manual Vrinin Airline leakage (2-3) 4. Airlinow with milk system added; machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp Winin (liners plugged), close claw air admission; test at A2 and Vr or Vp Winin (liners plugged), close claw air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Winin 2kPa below 1a, test at A1 and Vr 17. Airlinow with group attention in the milking position (liners plugged), test at A2 and Vr or Vp Winin 2kPa below 1a, test at A1 and Vr 17. Airlinow with regulator(s) machine in the milking position (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr 18. Airlinow with regulator(s) machine in the milking position (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr 18. Airlinow with regulator(s) machine in the milking position (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr 19. Airlinow with regulator(s) machine in the milking position (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr 19. Airlinow with regulator(s) machine in the milking position (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr 19. Airlinow with regulator(s) machine in the milking position (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr 19. Airlinow with regulator(s) machine in the milking position (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr 19. Airlinow with regulator(s) machine in the milking position (liners plugged), add regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr 19. Airlinow with regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr 19. Airlinow with regulator(s), drop vacuum 2kPa below 1a, test at A1 and Vr 19. Airlinow with regulator(s), drop vacu	. Airflow with vacuum system; machine in the milking						-
at A2 and Vr or Vp follow procedures in 10.7 of Teagasc/IMQCS Manual Airline leakage (2-3) Airline with milk system added; machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp Milking system leakage (3-4) Airlinow with air admission at claws open; machine in the milking position (liners plugged), close claw air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Limin Claw air admission (4-5) Pulsation Test Results Rate c/min Max Min Max Max Min Max		est				-	2000
A larlinow with milk system added; machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp Milking system leakage (3-4) 5. Airflow with air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Umin 6. Airflow with our regulator(s); machine in the milking position (liners plugged), test at A1 and Vr 7. Airflow with psylator(s); machine in the milking position (liners plugged), test at A1 and Vr 8. Airflow with air admission at claws open; machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); machine in the milking position (liners plugged), add regulator(s); drop vacuum 2kPa			l/min			-	
4. Airflow with milk system added; machine in the milking position (liners plugged), close claw air admission; test at A2 and Vr or Vp Vmin Vmin	Airline leakage (2-3)		l/min		A STATE OF THE PARTY OF THE PAR	-	300
Milking system leakage (3-4) Milking system leakage (1-1) Milkin	Airflow with milk system added; machine in the milking position			16.	Airflow without regulator(s); machine in the milking position		
Airflow with air admission at claws open; machine in the milking position (liners plugged), test at A2 and Vr or Vp Claw air admission (4-5) Pulsation Test Results Regulator leakage (16-17) Faults Faults Faults Faults Recommendations Recommendations	(liners plugged), close claw air admission; test at A2 and Vr or Vp		l/min		(liners plugged), regulator(s) plugged, drop vacuum		
position liners plugged), test at A2 and Vr or Vp Claw air admission (4-5) Pulsation Test Results Rate c/min Max Min Max Min Min Min Max Min Min Max Min Min Min Max Min Min Min Max Min Min Min Max Min Min Min Max Min	Milking system leakage (3-4)		l/min		2kPa below 1a, test at A1 and Vr		l/min
Claw air admission (4-5) Vmin below 1a, test at A1 and Vr Imin Regulator feakage (16-17) Imin Pulsation Test Results Regulator feakage (16-17) Imin Pulsation Test Results Regulator feakage (16-17) Imin Max	Airflow with air admission at claws open; machine in the milking			17.	Airflow with regulator(s); machine in the milking position		
Claw air admission (4-5) Umin below 1a, test at A1 and Vr Imin Regulator leakage (16-17) Umin			I/min		(liners plugged), add regulator(s), drop vacuum 2kPa		
Pulsation Test Results Rate c/min "b" phase vacuum kPa Ratio "a-b" % or ms "a" value % or ms "Max Min Max Min Max Min "" value % or ms Max Min "" value so			l/min				
Rate c/min Max Min Max Min Max Min Max Min					Regulator leakage (16-17)	_	l/min
Rate c/min Max Min Max Min Max Min Max Min	Latina Test Posults	(E.	ulte				
Max Min Max Min	No.						_
Astio "a-b" % or ms Max Min	ite C/min	-					-
a" value % or ms Max Min C" value % or ms Max Min	itio "a+b" % or ms Max Min	-		155		11111	
b" value % or ms Max Min d" value % or ms Max Min d" value % or ms Max Min tulsation printout attached: yes/no Minultaneous or Alternate Recommendations	value % or ms	-	-	-			
c"value % or ms Max Min	" value % or ms Min	-					
rulsation printout attached: yes/no Recommendations	value % or ms	-					-
imultaneous or Alternate		D	con	nm	endations		
	nultaneous or Alternate	1					
		-					
		-					



BASH MILK QUAL	
e IMOCS	20
1	ó
THE SOCIETY	,

IMQCS MILKING MACHINE TEST REPORT

o IMOCS O Name		Address				
5 0		DatePlant Type				
No. of unitsTester's Signature	e	IMQCS Reg. no				
OS ANY NO. OI UNIO						
Vacuum and Airflow Test Results		Airflow with ancillary equipment connected to milkline added, machine in the milking position (liners plugged), test at A2 and Vr or Vp /milking position /milking position				
1. Working vacuum at Vm; machine in the milking		Milking system ancillary equipment usage (5-6)				
position (liners plugged)	kPa	7. Airflow with pulsators added; machine in the milking position				
Working vacuum recommended with the machine		(liners plugged), test at A2 and Vr or Vp				
in the milking position (liners plugged)	kPa	Pulsation usage (6-7)				
1a. Working vacuum at Vr; machine in the		8. Airflow with ancillary equipment connected to airline added; machine				
milking position (liners plugged)	kPa	in the milking position (liners plugged), test at A2 and VI of VP				
b. Working vacuum at Vp; machine in the milking	10	Airline ancillary equipment usage (7-6)				
position (liners plugged)	kPa	9. Manual reserve; machine in the milking position (liners plugged),				
. Vacuum in the milking system at Vm; machine		regulator(s) plugged, drop vacuum 2kPa below no. 1,				
ready for milking	kPa	test at A1 and Vm				
Plant gauge vacuum level; machine ready for milking	kPa	10. Effective reserve; machine in the milking position (liners plugged), regulator(s) added, drop vacuum 2kPa below				
. Vacuum near plant vacuum gauge at Vr; machine						
ready for milking	kPa	no. 1, test at A1 and Vm				
Plant vacuum gauge accuracy (1d-1e)	kPa	Regulation loss (9-10) Note: Test 16 and 17 must be carried out at routine testing if "Regulation				
Pump capacity; AFM direct to pump, test gauge at Vp	l/min	Loss" exceeds 35 litres or 5% of manual reserve, whichever is greater				
Pump capacity, AFM direct to pump, test gauge at Vp	l/min	Required effective reserve				
Pump capacity at 50kPa; AFM direct to pump, test gars	rpm	Required cleaning reserve				
Pump speed	I/min	11. Regulation sensitivity (1c-1)				
Estimated pump capacity required	- 4.100	12. Exhaust back pressure (positive pressure); test gauge at Pe				
Airflow with vacuum system; machine in the milking		12. Exhaust back pressure (positive pressure) 13. Fall-off/attachment vacuum drop; open one unit per 32 units				
position (liners plugged), airline only added, regulator(s) plugged, test						
boston (investigation of Teagrass / IMOCS Manua	al l/mir	14. Regulation undershoot				

Bold items are mandatory for routine tests





Test report books and the service checklist are supplied free of charge







Milking machine training facility Kildalton





Existing training room





Existing training room



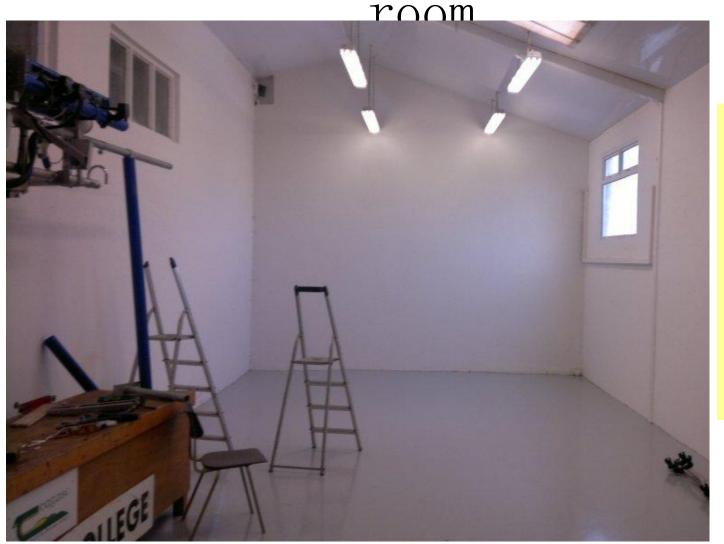


Existing training room





New milking machine training



Far end and right of room for three more training milking machines



New milking machine training room





















Irish Milk Quality Co-Operative Society Ltd.

Tuesday, July 16, 2013

Home

Mission Statement

Committee

Co-Operatives

Technician Register

Training Programme

Teagasc IMQCS Manual

Milk Quality Handbook

Recent Publications

Detergent Analysis

Milk Quality Tools

Flukecide Information

Seminar Documentation

Contact Us









Home - Contact Us

Welcome to milkquality.ie

The Irish Milk Quality Co-operative Society has its registered office at 84 Merrion Square, Dublin 2.

The organisation was incorporated in 1989 with the aim to improve milk quality standards in Ireland and to ensure that Irish milking machine installation and testing standards equate with the best international standards.

The IMQCS interprets the ISO international standards on milking equipment for use in Ireland and defines further additional reccomendations.

The organisation maintains a list of milking machine technicians which have undergone approved training and certification.











-IMQCS-

www.milkquality.ie

