



Circ: 15 Feb 2024

**Minutes of the meeting of the Fan Coil Unit Group
on Thursday 1 February 2024
at the FETA offices in Hare Hatch**

Present

Barry	Trewhitt	Chair	Advanced Air (UK) Ltd	z
John	Tarling		Biddle Air Systems	z
Mike	Hims		Biddle Air Systems	z
Ana	Mourino		Biddle Air Systems	z
Warren	Clark		Daikin Airconditioning UK Ltd	
Lenie	Potgieter		Smiths Environ. Products Ltd	z
Alan	Green		TROX UK Ltd	z
Mike	Gosling		TROX UK Ltd	z
Troy	Chambers		Ability	
Mike	Duggan	Secretary	FETA	

z=via Zoom

1 Welcome and introducing any new members or guests

The chair welcomed members.

2 To note the FETA Competition Law Guidelines and Guidelines to FETA committee procedures

The **FETA Competition Law Guidelines** and the **Guidelines to FETA committee procedures** are available on www.feta.co.uk/members-area/competition-law-and-committee-guidelines. Accepting the invitation, or attending the meeting, will be taken as member's acknowledgement of the guidelines' existence.

This meeting may be recorded.

3 Minutes of meeting held on 21 Nov 2023

The minutes are prepared in accordance with the Guidelines to FETA committee procedures.

3.1 Approval for accuracy.

Copies available from www.feta.co.uk/members-area/committee-minutes

3.2 Matters arising not covered by this agenda.

3.2.1 SPONS

At the last CBCA Chris Bicknell from SPONS joined. They are looking for input on various products by 31 March. They want market data. The chair suggested BSRIA statistics. Chris Yates is having further discussions so he will advise.

4 How fan coils can be used with heat pumps.

Update from Warren Clark / Troy Chambers / Barry Trehwitt

Troy Chambers organised another meeting with Warren Clark before Christmas to finalise the draft so it can be shared with all members ahead of the next meeting on 1st February.

TC has prepared the first draft. He will get Warren Clark to review it before sending to all members for review.

It covers applications with heat-pumps, boilers, hotels changing VRFs for heatpumps and fan coils.

The issue with refrigerant gases is one that the industry is addressing so that isn't perceived as an issue.

Mitsubishi Electric has a fancoil-based system, and others are developing suitable water-based systems.

It was suggested to include guidance on new build in the document. Warren will draft a clause on this.

Warren will review the draft now and TC will send to MD by 15 February.

Action: WC / TC / MD

5 BIM / Environmental Product Declaration

The [*TM65 Embodied carbon in building services: A calculation methodology \(2021\)*](#) was discussed. It is available from the [CIBSE Knowledge Portal](#). The website includes links to related content such as the digital tool.

BREEAM and NABERS are run by BRE.

If other groups feel it would be useful, could CY @ FETA approach BRE and ask if they could do a webinar for FETA members? Ideally, we would like BRE to give an overview, and then detail the areas/clauses within BREEAM & NABERS which impact on FETA members products.

Action: CY

(Explanatory note from websites: BREEAM's third-party certified standards have helped improve asset performance at every stage, from design through construction, to use and refurbishment. NABERS UK measures the efficiency of an office building and rates its performance).

6 Guides

Generic acoustic document including a typical calculation helpful to contractors

BT, AG, JT produced a draft that members reviewed at the November meeting.

A final draft (TFS 016 – acoustic assessment) was issued on 19 Jan so members could have a final review before publication. BT edited the draft from final agreed comments during this meeting. He will send to MD for publication on the FCU Group website.

Action: BT / MD

7 Fact sheets / guidance

7.1 How to get the best out of fan coils?

At the November meeting BT proposed this could be a suitable guide – *How to get the best out of fan coils?*

Volunteers to draft the guide were Mike Hims, Troy Chambers and Barry Trewitt.

MH will prepare a draft and send to TC and BT for initial comment.

Action: MH

7.2 *Fan Coils and Air Terminal Devices*

Another guide that is needed is - *Fan Coils and Air Terminal Devices*

AG, chairman of Air Distribution Group will discuss this at 30/11/23 meeting & look for volunteers to work with FCU Volunteers: BT, AG, JC-S

ADMG meet on 12 March and Alan Green will raise it at that meeting and ask for volunteers.

7.3 *Commissioning Specialist Association*

The Commissioning Specialist Association www.CSA.org.uk. It was felt we may want to invite them to a meeting. CY offered to make the initial contact. MD will see if CY can get someone for the 9 July meeting.

Action: MD / CY

8 **Publicity**

8.1 Web page – <https://www.feta.co.uk/associations/hevac/specialist-groups/fan-coil-unit-group>

A review of the FCU page on the new FETA website.

The specialist group webpage is not doing a job of “selling” fan coils. BT was also thinking of having a title of “Potential additions to CIBSE TM 42” and put the relevant documents underneath.

It was not as easy now to find the documents and the description of each is on a separate link, which isn’t as easy. MD/CY/BT would discuss with web designer (done on 9.02.2024).

8.2 FCU Group members details

Members are reminded to promote the fan coil website to their clients. And members should routinely check their own company details on [FCU Group webpages](#).

8.3 LinkedIn

Any Fan Coil postings required for the FETA LinkedIn site?

Ask web designer to add the LinkedIn link to the FCU Group page - <https://www.linkedin.com/showcase/fan-coil-unit-group/>

9 **Date of meetings in 2024**

The calendar of FETA meetings in 2024 is on [the FETA website](#). “Placeholder” invitations have been issued so members can get dates in their diaries.

Next meeting: **Tues 9 July**

The third meeting of the year: **Wednesday 16 October (this is a change to the date originally proposed)**

As agreed at the November meeting, we asked the Air Curtain Group if they wished to hold one of their meetings on the same day as the FCU Group so that some members from both groups can attend both meetings if they wish. We proposed moving our 3rd FCU Group meeting from November to the same day as the meeting of the Air Curtain Group in October. The FCU Group will be from 10:30 to 12:30, then a joint sandwich lunch followed by the Air Curtain Group meeting in the afternoon. FCU Group members can stay on for the A-C meeting if they wish.

Dates are provisional. Members should check the notice/agenda for the meeting which will be circulated three weeks before the meeting as dates/venue sometimes change.

10 Any other business

SFP - Approved Doc L Volume 2. The Consultation Version December 2023 has a difference in the formula used to obtain the “rating weighted average”

Table 6.9 Maximum specific fan power (SFP) in air distribution systems in new buildings and existing buildings		
System type ¹	SFP (W/(L·s)) ^{2,3}	
	New buildings	Existing buildings
Fan coil unit (rating weighted average ⁴)	0.4	

4. The rating weighted average is calculated using the following formula:

$$\frac{[(P_{\text{mains},1} + P_{\text{mains},2} + P_{\text{mains},3} + \dots)]}{(\text{Flow rate}_1 + \text{Flow rate}_2 + \text{Flow rate}_3 + \dots)}$$

where P_{mains} is useful power supplied from the mains in W and flow rate is in l/s.

Compared with current formula in 2021.

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	New buildings	Existing buildings
Fan coil unit (rating weighted average ⁽³⁾)	0.4	0.4

3. The rating weighted average is calculated using the following formula:

$$\frac{[(P_{\text{mains},1} \times \text{SFP}_1) + (P_{\text{mains},2} \times \text{SFP}_2) + (P_{\text{mains},3} \times \text{SFP}_3) + \dots]}{(P_{\text{mains},1} + P_{\text{mains},2} + P_{\text{mains},3} + \dots)}$$

where P_{mains} is useful power supplied from the mains in W.

Chair Date

(for approval at the next meeting)